SLR International Corporation
Durango, CO

November 1, 2024

Ms. Meghan Way
GCC Rio Grande, Inc.
3372 Lime Road
Pueblo, CO 81004
meghanway@gcc.com

RE: 2024 Q3 Quarterly Groundwater Report; Pueblo Plant, Permit #M-2002-004

Dear Ms. Way,

This letter addresses the 2024, quarter 3 groundwater compliance monitoring field activities and results, as a summary to be included with the quarterly data submittal of all field data sheets and laboratory results, laboratory data validation report, as well as the updated groundwater monitoring data summary table, per DRMS requirements as stated in their letter dated February 28, 2024, RE: Adequacy Review of Quarterly Hydrology Reports. 2023, 2ndQuarter, 3rd Quarter, 4th Quarter, Permit #M-2002-004.

During 2024 Q3 monitoring the following wells exceeded the 0.33-foot EPA low-flow methodology target for maximum drawdown for low-flow/low-stress purging and sample collection, as indicated in bold in the following Table 1. The subject wells are completed in a classic arid west fractured sedimentary bedrock, resulting in very low-yield well conditions. As shown in the Table 1, drawdowns in excess of 0.33 feet occurred at MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, and MW-24 despite keeping purge and sample flow rates within the target 0.03 to 0.10 gpm and the total purge and sample production time to a minimum. It is recognized that during this quarter, low-flow/low-stress purging and sample collection was conducted as part of new task training, which resulted in some wells inadvertently being purged at flow rates > 0.10 gpm. These wells were MW-18, MW-20, MW-21, MW-22, and MW-23, and all resulted in purge drawdowns exceeding the 0.33 low-flow target maximum. Regardless, as there is a historical data set of more than 10 quarters for all of the pre-TR-12 wells, time-series plots for several constituents shown in Figures 1, 2, and 3 below indicate a data consistency to support that the current sample collection method, despite drawdown exceeding EPA methodology, does produce representative groundwater chemistry results. The ten new TR-12 monitoring wells, each now with two monitoring events, are also plotted.

It is noted that in 2024 Q3, for all wells the total purge volumes at sample collection time were aligned with the respective sample pump full tubing volumes, whereby stabilization parameter documentation began at the time the full target tubing volume was produced. Per the TR-11 SAP Appendix 1 GCC Rio Grande Pueblo Plant Groundwater Monitoring Well Compliance Sampling Procedure, step 7(i) "Once the given target tubing purge volume has been discharged, monitor the individual water quality field parameters utilizing the VuSitu app for stabilization over 3 consecutive measurements…". During 2024 Q3 compliance monitoring at each well, the three sets of recorded stabilization parameters were recorded, each three minutes apart, including the final (third) set of sample parameters, which was not recorded until the initial prescribed tubing volume was produced.

The following Table 1 shows what the actual tubing purge volume totals are, based on the given measured flow rates and static depths to water prior to sampling. The use of the full length of sample pump tubing to calculate the tubing purge volume was meant to be conservative as they all represent overestimations due to relatively deep static depths to water. In 2024 Q3 all wells were purged based on these

calculations, so all stagnant water from the tubing was purged prior to sample collection by 0.02 gallons or more. The last column in Table 1 shows what is effectively a corrected purge difference value for each well, demonstrating all wells in 2024 Q3, with the exception of MW-19, were otherwise purged beyond the minimum required to obtain representative samples. Comparison of field and laboratory parameters between 2024 Q2 and 2024 Q3 in the data summary Table 2 indicate very little differences, suggesting the very slight under purge of MW-19 in 2024 Q3 did not compromise the validity of these results.

Table 1 – 2024 Q3 Sampling Purge Rates, Volumes, & Drawdowns

2024 Q3 Sampling Event											
Monitoring Well ID	Purge & Sample Flow Rate as Measured in Graduated Beaker	Sample Pump Tubing Volume - Fixed Length on Dedicated Pump	Purge & Sample Flow Volume as Measured in Bucket at Sample Collection	Target Total Purge Volume Based on Measured Purge Flow Rate	Total Purge Volume Difference Target vs Actual	Static Water Level	Pumping Water Level at Sample Collection	Purge & Sample Drawdown	Pump Set Depth	Actual Tubing Volume to Displace Factoring Tubing Water Column Length	Total Purge Volume Difference Target Corrected for Tubing Water Column vs Actual
	gpm	*gal*	*gal*	*gal*	*gal*	*ft TOC*	*ft TOC*	*ft*	*ft TOC*	*gal*	*gal*
MW-6	0.07	0.3	1.00	0.72	0.28	32.12	32.51	**0.39**	55.7	0.13	0.45
MW-7	0.05	0.3	1.00	0.60	0.40	32.12	31.91	-0.21	55.0	0.13	0.57
MW-8	0.06	0.4	0.80	0.76	0.04	31.21	38.05	**6.84**	62.5	0.14	0.30
MW-9	0.08	0.2	0.70	0.68	0.02	26.98	28.80	**1.82**	38.6	0.06	0.16
MW-10	0.07	0.5	0.75	0.92	**-0.17**	26.42	33.70	**7.28**	79.0	0.26	0.07
MW-11	0.07	0.4	0.80	0.82	**-0.02**	54.84	56.35	**1.51**	68.5	0.07	0.31
MW-12	0.06	0.5	0.90	0.86	0.04	58.70	64.76	**6.06**	85.4	0.12	0.42
MW-13	0.05	1.0	1.25	1.30	**-0.05**	117.50	117.09	-0.41	167.5	0.29	0.66
MW-14	0.06	1.2	1.65	1.56	0.09	96.10	107.92	**11.82**	203.6	0.60	0.69
MW-15	Dry										
MW-16	Dry										
MW-17	Dry										
MW-18	0.13	0.3	0.90	1.08	**-0.18**	39.08	39.79	**0.71**	58.0	0.10	0.02
MW-19	0.08	0.4	0.75	0.88	**-0.13**	14.54	15.37	**0.83**	76.7	0.35	**-0.08**
MW-20	0.13	0.6	1.30	1.38	**-0.08**	20.73	29.57	**8.84**	99.5	0.40	0.12
MW-21	0.12	0.7	1.30	1.42	**-0.12**	47.57	48.12	**0.55**	127.0	0.45	0.13
MW-22	0.15	0.9	1.75	1.80	**-0.05**	149.71	156.45	**6.74**	156.3	0.00	0.85
MW-23	0.11	0.5	1.40	1.16	0.24	73.84	77.75	**3.91**	81.8	0.02	0.72
MW-24	0.04	0.7	1.00	0.94	0.06	111.56	Pumped Dry		115.3		

Notes:
Purge volume negative values indicate less than target; positive values indicate greater than target

Time series plots for concentrations of sulfate, total dissolved solids (TDS), and total alkalinity are provided as Figures 1, 2, and 3, respectively, to demonstrate consistency of the 2024 Q3 data with respect to conservative constituent concentrations and trends through time within the Fort Hayes Limestone, Codell Sandstone, and Blue Hills Shale lithologic units. Further discussion of major ion and trace element chemistry is provided in the annual groundwater report submitted in January of each year.

Groundwater quality at monitoring locations completed in the Ft. Hayes Limestone (MW-6, MW-7, MW-11, MW-13, MW-19, MW-21, and MW-23) during the 2024 Q3 sampling event was consistent with concentrations and trends through time for sulfate, TDS, and total alkalinity (Figures 1 through 3). Concentrations of sulfate, TDS, and total alkalinity at newly installed wells MW-19, MW-21, and MW-23 were consistent with other wells completed in the Ft. Hayes Limestone and will continue to be monitored for trends through time.

Similarly, groundwater quality at monitoring locations completed in the underlying Codell Sandstone (MW-8, MW-9, MW-12, MW-14, MW-18, MW-20, MW-22, and MW-24) during the 2024 Q3 sampling event was consistent with concentrations and trends through time (Figures 1 through 3). Concentrations of TDS have increased through time and appear to have stabilized in the downgradient MW-14 location. Concentrations of alkalinity at MW-14 have decreased since 2023 Q3. Concentrations of sulfate, TDS, and total alkalinity at newly installed wells MW-18, MW-20, MW-22, and MW-24 appear to be lower than

observed in the other Codell Sandstone wells, however, trends for these locations have not been established after only two monitoring events.

Monitoring location MW-10 is located upgradient of mine panel four and completed in the Blue Hills Shale. Concentrations of sulfate and TDS have been declining and alkalinity increasing, with the 2024 Q3 sampling results trending in line with previous sampling events (Figures 1 through 3).

As already discussed in the previous emails from GCC to DRMS dated September 23, 2024, and September 27, 2024, in 2024 Q3 there were exceedances of laboratory-reported fluoride, selenium, boron, and manganese concentrations at select wells, all which are qualified with explanations as background. Furthermore, the manganese and boron exceedances are excepted by rule per Water Quality Control Commission Regulation 41.

Finally, the data validation report for all 2024 Q3 laboratory data has been received and reviewed to find no concerns and the data fully usable. The report, prepared by DSA is included in this submittal below. Regards,

SLR International Corporation

Landon Beck
Principal Hydrogeologist
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Electronic Attachments: 2024 Q3 GW monitoring field forms zip, 2024 Q3 lab reports zip

CC: None

Figure 1. Concentrations of Sulfate in the Ft. Hayes Limestone, Codell Sandstone, and Blue Hills Shale.

Figure 2. Concentrations of Total Dissolved Solids in the Ft. Hayes Limestone, Codell Sandstone, and Blue Hills Shale.

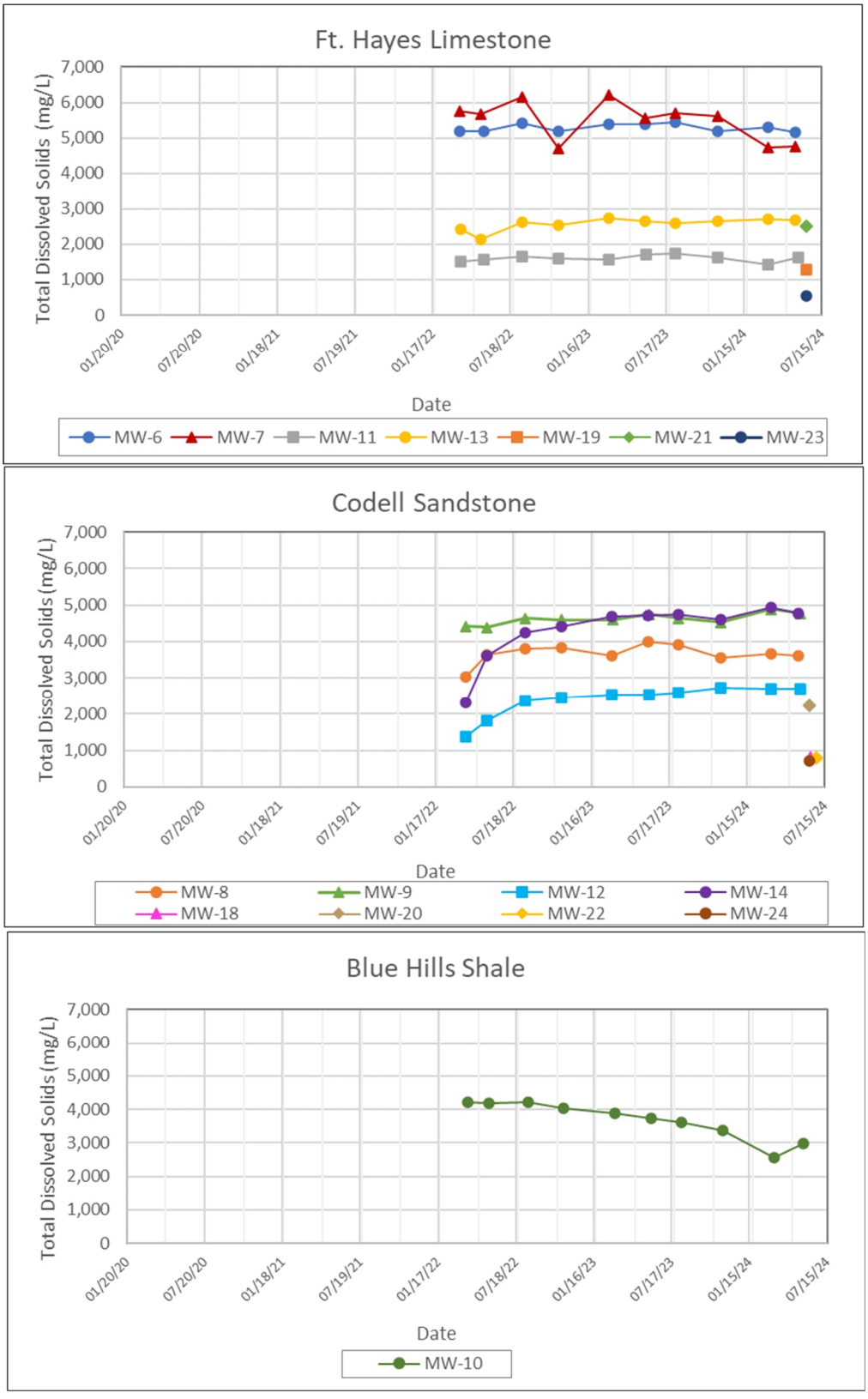

Figure 3. Total Alkalinity in the Ft. Hayes Limestone, Codell Sandstone, and Blue Hills Shale.

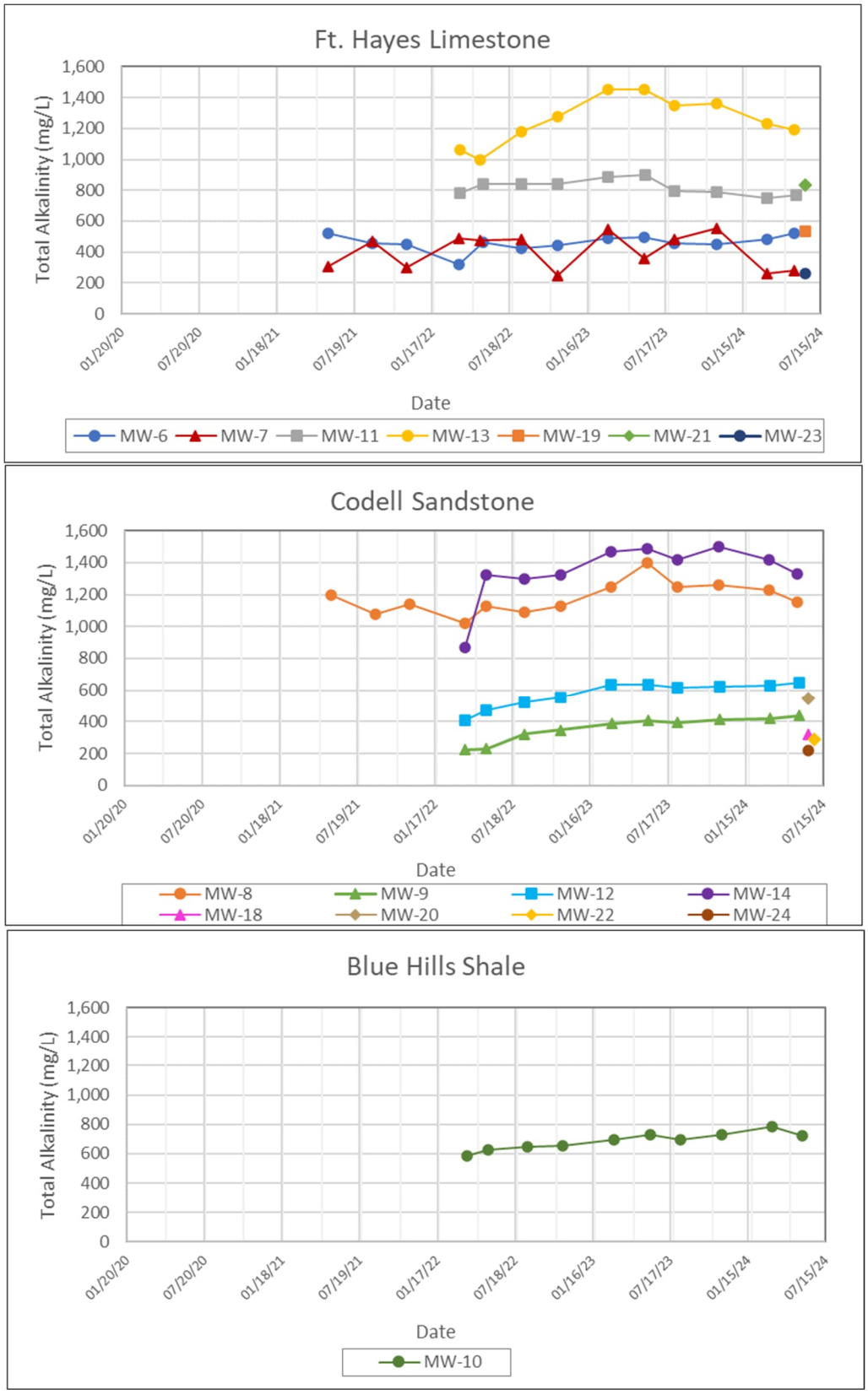

Table 2

Location ID	Sample Date	Depth to Water (ft BTOC)	Field pH (SU)	Field Specific Conductance (µS/cm)	Field Temperature (Degrees C)	Total Dissolved Solids (mg/L)	Total Alkalinity (mg/L)	Bicarbonate as CaCO3 (mg/L)	Carbonate as CaCO3 (mg/L)	Hydroxide as CaCO3 (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)	Nitrate (mg/L)	Nitrate/Nitrite (mg/L)	Nitrite (mg/L)
MW-5	9/17/2020	DRY														
MW-5	11/23/2020	DRY														
MW-5	5/12/2021	DRY														
MW-5	11/18/2021	DRY														
MW-5	3/24/2022	DRY														
MW-5	5/10/2022	DRY														
MW-5	11/8/2022	DRY														
MW-5	5/30/2023	DRY														
MW-5	11/14/2023	DRY														
MW-5	5/15/2024	DRY														
MW-6	3/9/2020	32.30	7.22	5,591	16.5	5,780	----	----	----	----	----	----	0.70	2.02	2.58	0.560
MW-6	9/16/2020	29.78	7.20	5,405	16.7	5,480	----	----	----	----	----	----	0.50	0.05	0.05	<0.01
MW-6	11/23/2020	30.92	7.25	5,425	14.3	5,300	----	----	----	----	----	----	0.57	1.62	1.63	0.012
MW-6	2/22/2021	36.61	7.55	5,684	15.8	5,780	----	----	----	----	----	----	0.62	0.07	0.067	<0.01
MW-6	5/19/2021	46.32	7.43	5,945	14.9	----	524	524	<2	<2	109	3,200	0.57	0.03	0.032	<0.01
MW-6	8/31/2021	26.18	7.32	6,170	16.1	----	459	459	<2	<2	74	3,390	0.58	4.2	4.24	0.038
MW-6	11/18/2021	29.70	7.18	7,477	14.2	----	450	450	<2	<2	76	3,750	0.62	0.846	0.85	<0.01
MW-6	3/22/2022	36.00	7.23	5,322	14.0	5,200	321	321	<2	<2	49	3,610	0.62	8.01	8.02	0.011
MW-6	5/17/2022	36.94	7.03	5,726	16.7	5,190	461	461	<2	<2	89	3,140	0.57	3.24	3.25	0.015
MW-6	8/15/2022	36.78	7.02	5,404	20.5	5,410	421	421	<2	<2	69	3,700	0.50	1.02	1.09	0.070
MW-6	11/7/2022	33.62	6.92	5,311	15.7	5,200	445	445	<2	<2	77	3,180	0.79	<0.02	<0.02	<0.01
MW-6	3/6/2023	37.00	6.92	4,358	15.9	5,390	491	491	<2	<2	76	3,200	0.52	<0.02	<0.02	<0.01
MW-6	5/30/2023	24.61	6.96	5,847	18.2	5,380	493	493	<2	<2	75	3,150	0.52	0.32	0.361	0.040
MW-6	8/8/2023	26.90	7.00	5,361	21.1	5,440	456	456	<2	<2	74	3,260	0.43	0.29	0.287	<0.01
MW-6	11/14/2023	32.12	6.99	5,278	15.9	5,200	448	448	<2	<2	68	3,120	0.55	0.16	0.156	<0.01
MW-6	3/11/2024	34.16	6.93	5,147	14.5	5,310	480	480	<2	<2	83	3,230	0.53	<0.02	<0.02	<0.01
MW-6	5/15/2024	32.14	6.89	4,960	16.3	5150	524	524	<2	<2	83	3,300	0.52	<0.02	<0.02	<0.01
MW-6	8/26/2024	32.12	6.92	5,077	16.9	5,160	477	477	<2	<2	83	3,210	0.49	<0.02	<0.02	<0.01
MW-7	3/9/2020	32.46	7.01	6,459	15.8	6,540	----	----	----	----	----	----	0.40	15	14.9	0.060
MW-7	9/16/2020	29.65	7.17	4,772	15.2	4,950	----	----	----	----	----	----	0.40	11	11.0	0.030
MW-7	11/23/2020	30.40	7.16	4,999	14.3	5,070	----	----	----	----	----	----	0.47	11	11.2	0.039
MW-7	2/22/2021	32.87	7.55	6,077	14.4	6,500	----	----	----	----	----	----	0.49	9.9	9.98	0.068
MW-7	5/19/2021	30.83	7.51	5,464	15.2	----	309	309	<2	<2	51	3,430	0.40	7.51	7.54	0.027
MW-7	8/31/2021	25.79	7.15	6,061	15.4	----	467	467	<2	<2	96	3,360	0.52	0.91	0.91	<0.01
MW-7	11/18/2021	29.45	6.94	6,589	13.9	----	299	299	<2	<2	53	3,700	0.53	3.84	3.84	<0.01
MW-7	3/22/2022	36.70	6.95	5,654	15.1	5,760	491	491	<2	<2	94	3,650	0.57	1.22	1.24	0.02
MW-7	5/10/2022	37.61	6.86	5,593	15.2	5,660	477	477	<2	<2	104	3,240	0.58	0.19	0.19	<0.01
MW-7	8/15/2022	29.34	6.99	5,905	20.0	6,170	484	484	<2	<2	97	3,810	0.50	0.15	0.15	<0.01
MW-7	11/7/2022	33.53	7.08	4,727	15.2	4,690	250	250	<2	<2	41	3,000	0.37	4.65	4.65	<0.01
MW-7	3/6/2023	37.43	6.95	4,958	15.6	6,210	545	545	<2	<2	91	3,630	0.55	0.26	0.276	0.013
MW-7	5/30/2023	24.50	7.03	5,099	18.1	5,560	358	358	<2	<2	47	3,470	0.41	8.66	8.66	<0.01
MW-7	8/8/2023	26.41	6.99	5,757	17.6	5,690	484	484	<2	<2	90	3,500	0.41	0.11	0.113	<0.01
MW-7	11/14/2023	31.76	6.97	5,750	16.2	5,630	552	552	<2	<2	117	3,140	0.58	<0.02	<0.02	<0.01
MW-7	3/11/2024	34.06	7.09	4,728	14.5	4,740	260	260	<2	<2	45	3,140	0.51	5.41	5.41	<0.01
MW-7	5/15/2024	30.46	7.08	4,876	15.8	4,760	283	283	<2	<2	46	3,160	0.55	4.87	4.92	0.048
MW-7	8/27/2024	32.12	7.20	4,558	17.1	4,560	237	237	<2	<2	47	2,940	0.49	3.75	3.82	0.074
MW-8	3/9/2020	43.78	Inadequate volume for representative field parameters or lab sample submittal at time of water level measurement and then COVID-19 restrictions enacted before well could be revisited following purge													
MW-8	9/16/2020	29.74	Inadequate volume for representative field parameters or lab sample submittal after purge - sample collected 9/28/20 because well took 2 weeks to recover													
MW-8	9/28/2020	57.43	7.26	9,179	14.7	7,900	----	----	----	----	----	----	0.90	<0.02	<0.02	<0.01
MW-8	11/9/2020	37.26	Inadequate volume for representative field parameters or lab sample submittal after purge - sample collected 11/23/20 because well took 2 weeks to recover													
MW-8	11/23/2020	39.73	7.11	5,327	13.9	4,060	----	----	----	----	----	----	1.14	<0.050	<0.02	<0.01
MW-8	2/22/2021	34.21	7.65	5,476	14.8	4,180	----	----	----	----	----	----	1.10	<0.02	<0.02	<0.01
MW-8	5/19/2021	34.56	7.60	5,571	16.1	----	1,200	1,200	<2	<2	316	1,520	0.89	0.99	1.01	0.016
MW-8	8/31/2021	25.75	7.32	6,077	17.8	----	1,080	1,080	<2	<2	272	1,820	1.00	<0.02	0.022	0.014
MW-8	11/18/2021	24.46	7.14	3,852	14.7	----	1,140	1,140	<2	<2	283	1,920	0.90	0.07	0.096	0.028
MW-8	3/28/2022	36.35	7.13	4,545	15.1	3,040	1,020	1,020	<2	<2	204	1,090	0.92	0.03	0.041	0.012
MW-8	5/17/2022	37.93	7.12	5,556	18.0	3,630	1,130	1,130	<2	<2	315	1,260	1.01	<0.02	<0.02	<0.01
MW-8	8/15/2022	30.25	7.18	5,325	18.8	3,790	1,090	1,090	<2	<2	291	1,510	1.09	<0.02	<0.02	<0.01
MW-8	11/7/2022	32.00	7.15	5,236	16.1	3,840	1,130	1,130	<2	<2	297	1,450	0.90	<0.02	<0.02	<0.01
MW-8	3/6/2023	33.76	7.19	4,375	15.3	3,600	1,250	1,250	<2	<2	280	1,470	1.03	<0.02	<0.02	<0.01
MW-8	5/30/2023	27.25	7.14	5,892	17.1	4,000	1,400	1,400	<2	<2	288	1,430	0.89	0.99	0.989	<0.01
MW-8	8/8/2023	23.88	7.22	5,184	20.5	3,900	1,250	1,250	<2	<2	275	1,380	0.95	<0.02	<0.02	<0.01
MW-8	11/14/2023	29.93	7.20	5,237	16.4	3,550	1,260	1,260	<2	<2	275	1,320	1.06	<0.02	<0.02	<0.01
MW-8	3/11/2024	33.10	7.16	4,969	14.4	3,660	1,230	1,230	<2	<2	315	1,300	1.03	<0.02	<0.02	<0.01
MW-8	5/15/2024	31.12	7.14	5,103	16.0	3,600	1,150	1,150	<2	<2	314	1,230	0.96	0.098	0.098	<0.01
MW-8	8/27/2024	31.21	7.19	4,834	17.3	3,800	1,230	1,230	<2	<2	322	1,300	0.96	0.023	0.023	<0.01
MW-9	3/28/2022	26.16	6.55	4,834	15.0	4,420	223	223	<2	<2	44	3,200	0.49	0.51	1.38	0.867
MW-9	5/17/2022	26.32	6.59	5,486	16.9	4,390	232	232	<2	<2	44	2,980	0.44	0.89	1.33	0.44
MW-9	8/15/2022	26.42	6.86	4,998	18.9	4,640	323	323	<2	<2	45	3,160	0.43	0.04	0.038	<0.01
MW-9	11/7/2022	26.37	6.81	4,959	16.2	4,590	347	347	<2	<2	46	2,970	0.27	<0.02	<0.02	<0.01
MW-9	3/7/2023	26.52	6.90	4,387	13.6	4,600	389	389	<2	<2	44	2,850	0.44	<0.02	<0.02	<0.01
MW-9	5/31/2023	26.68	6.85	5,789	18.6	4,740	407	407	<2	<2	49	3,050	0.35	<0.02	<0.02	<0.01
MW-9	8/9/2023	26.83	6.97	5,170	17.4	4,640	393	393	<2	<2	49	2,870	0.39	0.05	0.053	<0.01
MW-9	11/15/2023	26.72	6.91	5,216	17.4	4,530	414	414	<2	<2	47	2,770	0.42	0.10	0.095	<0.01
MW-9	3/11/2024	25.77	6.86	5,087	15.6	4880	421	421	<2	<2	45	2,590	0.42	<0.02	<0.02	<0.01
MW-9	5/20/2024	26.92	6.82	5,326	18.5	4780	438	438	<2	<2	43	3,210	0.53	<0.02	<0.02	<0.01
MW-9	8/26/2024	26.98	6.83	5,147	18.1	4,650	421	421	<2	<2	45	2,970	0.38	<0.02	0.038	0.02
MW-10	3/28/2022	26.35	7.43	5,724	15.1	4,220	587	587	<2	<2	289	2,380	0.99	<0.02	<0.02	<0.01
MW-10	5/17/2022	26.73	7.50	6,205	18.0	4,170	627	627	<2	<2	358	1,990	1.08	<0.02	<0.02	<0.01
MW-10	8/15/2022	26.04	7.56	5,813	18.8	4,210	644	644	<2	<2	350	2,240	1.16	<0.02	<0.02	<0.01
MW-10	11/7/2022	25.45	7.57	5,698	15.3	4,030	656	656	<2	<2	376	1,900	1.02	<0.02	<0.02	<0.01
MW-10	3/7/2023	24.88	7.65	4,662	13.8	3,890	696	696	<2	<2	375	1,730	1.15	<0.02	<0.02	<0.01
MW-10	5/31/2023	25.50	7.68	6,002	17.7	3,740	729	713	15	<2	399	1,640	1.18	<0.02	<0.02	<0.01
MW-10	8/9/2023	26.17	7.86	5,030	16.8	3,600	696	696	<2	<2	410	1,500	1.27	<0.02	<0.02	<0.01
MW-10	11/15/2023	25.68	7.82	4,403	16.1	3,360	727	701	27	<2	351	1,240	1.26	<0.02	<0.02	<0.01
MW-10	3/11/2024	25.21	7.76	3,502	15.1	2,550	784	784	<2	<2	382	806	1.40	<0.02	<0.02	<0.01
MW-10	5/20/2024	26.04	7.76	4,423	17.9	2,980	721	721	<2	<2	397	1,260	1.43	<0.02	<0.02	<0.01
MW-10	8/26/2024	26.42	7.79	1,661	19.4	2,780	719	719	<2	<2	386	1,050	1.35	<0.02	<0.02	<0.01
MW-11	3/23/2022	58.41	7.39	2,265	15.5	1,500	782	782	<2	<2	133	353	0.82	<0.02	<0.02	0.017
MW-11	5/17/2022	59.41	7.39	2,681	17.2	1,580	842	821	20	<2	136	330	0.91	<0.02	0.03	0.033
MW-11	8/15/2022	54.00	7.37	2,619	18.8	1,640	839	839	<2	<2	135	401	0.93	<0.2	<0.2	<0.01
MW-11	11/7/2022	57.23	7.35	2,573	15.2	1,590	839	839	<2	<2	125	359	0.76	<0.02	<0.02	<0.01
MW-11	3/6/2023	59.37	7.39	2,039	15.8	1,570	885	885	<2	<2	125	263	0.89	<0.02	<0.02	<0.01
MW-11	5/31/2023	52.18	7.39	2,861	16.6	1,700	898	898	<2	<2	138	424	0.87	<0.02	<0.02	<0.01
MW-11	8/8/2023	45.09	7.34	2,633	17.5	1,740	794	794	<2	<2	117	525	0.79	<0.2	<0.2	<0.01
MW-11	11/15/2023	34.24	7.30	2,474	16.8	1,630	787	787	<2	<2	100	471	0.85	<0.02	<0.02	<0.01
MW-11	3/11/2024	54.60	7.25	2,092	15.4	1,420	752	752	<2	<2	103	343	0.86	<0.02	<0.02	<0.01
MW-11	5/20/2024	53.34	7.77	----	27.9	1,630	769	769	<2	<2	111	476	1.14	<0.02	<0.02	<0.01
MW-11	8/27/2024	54.84	7.37	2,730	18.4	1,800	814	814	<2	<2	129	519	0.83	<0.02	<0.02	<0.01
MW-12	3/28/2022	63.48	8.19	2,896	15.4	1,360	409	380	29	<2	374	129	**2.52**	<0.02	<0.02	0.012
MW-12	5/17/2022	81.76	8.04	3,720	17.3	1,810	472	448	24	<2	793	88	**2.21**	0.32	1.28	0.957
MW-12	8/15/2022	79.28	7.69	4,219	18.0	2,370	523	523	<2	<2	954	204	1.85	8.89	9.40	0.511
MW-12	11/7/2022	72.80	7.67	4,399	15.2	2,450	553	553	<2	<2	1,000	195	1.65	4.18	5.73	1.55
MW-12	3/6/2023	65.47	7.74	3,504	17.7	2,520	634	631	3.1	<2	1,020	186	1.77	0.09	0.59	0.495
MW-12	5/31/2023	65.23	7.79	4,903	17.1	2,530	638	629	8.5	<2	1,070	159	1.81	<0.02	<0.02	<0.01
MW-12	8/8/2023	63.24	7.82	4,492	19.0	2,580	615	615	<2	<2	1,000	220	1.77	<0.02	<0.02	<0.01
MW-12	11/15/2023	60.60	7.76	4,570	17.1	2,730	622	602	20	<2	1,030	315	1.79	<0.02	<0.02	<0.01
MW-12	3/11/2024	58.65	7.70	4,510	14.7	2,710	632	632	<2	<2	984	326	1.84	<0.02	<0.02	<0.02
MW-12	5/20/2024	58.90	7.68	4,591	17.9	2,690	651	651	<2	<2	975	380	1.93	<0.02	<0.02	<0.02
MW-12	8/27/2024	58.70	7.75	4,271	19.0	2,640	643	643	<2	<2	985	328	1.77	0.046	0.046	<0.01
MW-13	3/23/2022	117.48	8.23	3,872	16.9	2,430	1,060	1,030	29	<2	573	234	**5.41**	<0.02	<0.02	<0.01
MW-13	5/10/2022	118.78	8.38	3,190	17.5	2,150	995	933	62	<2	566	89	**6.06**	0.11	0.11	<0.01
MW-13	8/15/2022	119.21	7.89	4,115	19.1	2,610	1,180	1,180	<2	<2	606	172	**6.46**	<0.02	<0.02	0.029
MW-13	11/8/2022	119.31	7.96	4,251	16.0	2,540	1,280	1,230	53	<2	643	122	**6.51**	0.04	0.064	0.024
MW-13	3/6/2023	83.74	7.91	3,668	15.7	2,730	1,450	1,340	111	<2	674	104	**6.49**	<0.02	<0.02	<0.01
MW-13	5/30/2023	119.19	8.00	4,842	17.7	2,640	1,450	1,380	75	<2	654	64	**5.79**	<0.02	<0.02	<0.01
MW-13	8/8/2023	84.08	8.16	4,054	18.0	2,590	1,350	1,260	89	<2	673	69	**6.57**	0.03	0.03	<0.01
MW-13	11/14/2023	111.52	8.04	4,145	18.0	2,640	1,360	1,290	73	<2	677	132	**6.82**	<0.02	<0.02	<0.01
MW-13	3/11/2024	117.18	7.95	3,783	15.3	2,700	1,230	1,230	<2	<2	656	138	**6.34**	<0.02	<0.02	0.012
MW-13	5/15/2024	107.82	7.91	4,019	16.8	2,670	1,190	1,190	<2	<2	643	187	**6.22**	<0.02	<0.02	0.017
MW-13	9/4/2024	117.50	8.04	4,079	17.5	2,810	1,250	1,250	<2	<2	645	197	**6.13**	<0.02	<0.02	<0.01
MW-14	3/28/2022	92.54	8.07	3,669	17.5	2,300	866	800	66	<2	473	353	**2.35**	<0.02	<0.02	<0.01
MW-14	5/17/2022	108.77	7.68	6,741	17.2	3,610	1,320	1,300	27	<2	1,410	143	**3.10**	0.02	0.02	<0.01
MW-14	8/15/2022	95.53	7.66	5,626	18.2	4,240	1,300	1,300	<2	<2	1,480	321	**3.10**	<0.02	<0.02	<0.01
MW-14	11/8/2022	92.34	7.59	6,395	15.5	4,410	1,320	1,320	<2	<2	1,660	393	**2.87**	<0.02	<0.02	<0.01
MW-14	3/6/2023	90.12	7.60	5,744	14.7	4,690	1,470	1,410	62	<2	1,590	460	**3.10**	<0.02	<0.02	<0.01
MW-14	5/30/2023	86.50	7.61	8,043	17.8	4,710	1,490	1,490	<2	<2	1,730	414	**2.61**	<0.02	<0.02	<0.01
MW-14	8/8/2023	82.40	7.71	6,875	18.9	4,750	1,420	1,420	<2	<2	1,710	436	**2.90**	0.026	0.026	<0.01
MW-14	11/14/2023	99.18	7.64	6,832	17.4	4,590	1,500	1,470	35	<2	1,630	232	**4.01**	<0.02	<0.02	<0.01
MW-14	3/11/2024	97.32	7.57	6,462	14.7	4,920	1,420	1,420	<2	<2	1,700	429	**2.98**	<0.02	<0.02	<0.01
MW-14	5/15/2024	98.34	7.57	6,596	16.4	4,780	1,330	1,330	<2	<2	1,730	352	**2.87**	<0.02	<0.02	<0.01
MW-14	9/4/2024	96.10	7.69	6,580	18.8	5,000	1,400	1,400	<2	<2	1,830	357	**3.03**	<0.02	<0.02	<0.01
MW-15	6/11/2024	DRY														
MW-15	8/26/2024	DRY														
MW-16	6/25/2024	DRY														
MW-16	8/26/2024	DRY														
MW-17	6/11/2024	DRY														
MW-17	8/26/2024	DRY														
MW-18	6/11/2024	38.69	7.58	1,041	18.9	830	319	319	<2	<2	23	377	1.22	1.36	1.36	<0.01
MW-18	8/26/2024	39.08	7.72	1,296	16.9	880	366	366	<2	<2	25	333	1.25	0.023	0.023	<0.01
MW-19	6/10/2024	12.42	8.09	1,710	18.0	1,290	535	535	<2	<2	123	393	1.40	<0.02	<0.02	<0.01
MW-19	8/27/2024	14.54	8.14	2,014	17.9	1,290	550	550	<2	<2	123	362	1.40	<0.02	<0.02	<0.01
MW-20	6/10/2024	48.08	8.14	2,854	18.9	2,230	546	546	<2	<2	848	78	**2.23**	0.363	0.38	0.017
MW-20	8/27/2024	20.73	7.50	1,498	19.7	2,140	593	593	<2	<2	1,010	65	**2.37**	<0.02	0.026	0.013
MW-21	6/10/2024	44.68	8.20	3,209	16.4	2,520	833	833	<2	<2	146	1,130	1.47	<0.02	<0.02	<0.01
MW-21	9/4/2024	47.57	8.40	3,505	17.8	2,530	901	901	<2	<2	153	926	1.64	<0.02	<0.02	<0.01
MW-22	6/25/2024	149.03	**9.10**	1,122	19.9	792	286	286	<2	<2	161	163	1.99	0.028	0.183	0.155
MW-22	9/4/2024	149.71	8.39	1,646	24.0	1,280	426	426	<2	<2	346	180	1.91	0.952	1.19	0.238
MW-23	6/10/2024	71.41	8.26	713	17.4	534	261	261	<2	<2	27	158	0.95	0.709	0.753	0.044
MW-23	9/4/2024	73.84	7.85	1,297	19.2	818	439	439	<2	<2	42	190	1.08	0.75	0.782	0.032
MW-24	6/10/2024	103.26	**9.34**	720	18.3	704	221	<2	221	<2	50	147	**2.06**	0.033	0.36	0.327
MW-24	9/4/2024	111.56	**8.92**	1,634	20.6	4.84	754	well not recovered, sample not collected								
Field QA/QC Samples																
MW-6 (duplicate)	5/15/2024	----	----	----	----	5,060	525	525	<2	<2	82	3,510	0.53	<0.02	<0.02	<0.01
MW-6 (duplicate)	8/26/2024	----	----	----	----	5,380	480	480	<2	<2	82	3,140	0.49	0.023	0.023	<0.01
MW-7 (duplicate)	3/9/2020	----	----	----	----	6,530	----	----	----	----	----	----	0.40	15	14.5	0.05
MW-7 (duplicate)	9/16/2020	----	----	----	----	5,040	----	----	----	----	----	----	0.40	11	10.9	0.03
MW-7 (duplicate)	2/22/2021	----	----	----	----	6,460	----	----	----	----	----	----	0.49	10	10.3	0.068
MW-7 (duplicate)	5/19/2021	----	----	----	----	----	291	291	<2	<2	51	3,280	0.43	7.45	7.48	0.028
MW-7 (duplicate)	8/31/2021	----	----	----	----	----	464	464	<2	<2	109	3,480	0.53	0.91	0.91	<0.01
MW-7 (duplicate)	3/22/2022	----	----	----	----	5,730	492	492	<2	<2	94	3,720	0.56	1.18	1.20	0.018
MW-7 (duplicate)	5/10/2022	----	----	----	----	5,660	490	490	<2	<2	104	3,290	0.58	0.20	0.20	<0.01
MW-7 (duplicate)	3/6/2023	----	----	----	----	5,870	504	504	<2	<2	89	3,480	0.51	0.20	0.20	<0.01
MW-7 (duplicate)	3/11/2024	----	----	----	----	4720	247	247	<2	<2	43	2,870	0.50	6.45	6.45	<0.01
MW-8 (duplicate)	11/23/2020	----	----	----	----	4,040	----	----	----	----	----	----	1.15	<0.050	<0.02	<0.01
MW-8 (duplicate)	11/18/2021	----	----	----	----	----	1,130	1,130	<2	<2	288	1,920	0.89	0.078	0.107	0.029
MW-8 (duplicate)	8/15/2022	----	----	----	----	3,730	1,100	1,100	<2	<2	290	1,560	1.07	<0.02	<0.02	<0.01
MW-8 (duplicate)	11/7/2022	----	----	----	----	3,770	1,110	1,110	<2	<2	289	1,460	0.93	0.26	0.26	<0.01
MW-8 (duplicate)	8/8/2023	----	----	----	----	3,800	1,250	1,250	<2	<2	295	1,350	0.95	<0.02	<0.02	<0.01
MW-11 (duplicate)	5/31/2023	----	----	----	----	1,700	902	898	3.3	<2	142	423	0.86	<0.02	<0.02	<0.01
MW-12 (duplicate)	11/15/2023	----	----	----	----	3,660	639	613	26	<2	923	314	1.77	0.04	0.04	<0.01
MW-21 (duplicate)	6/10/2024	----	----	----	----	2,480	838	838	<2	<2	146	1,120	1.38	0.04	0.04	<0.01
MW-21 (duplicate)	9/4/2024	----	----	----	----	2,430	889	889	<2	<2	154	1,040	1.67	<0.02	<0.02	<0.01
CDPHE Regulation 41 Table 3 Groundwater Quality Reference Standards (Agricultural Use)[1]			*6.5 -8.5*	----	----	*10,000*	----	----	----	----	----	----	*2.00*	----	*100*	*10*

Notes:
- Concentration in bold indicate exceedance of the CDPHE Groundwater Quality Reference Standard for Agricultural Use as applicable to the facility.
- Underlined values exceeded the method hold time for analysis.
- The applicable facility standards established for boron (5.0 mg/L) and total dissolved solids (<10,000) are different than the CDPHE agricultural use standards; 0.75 mg/L and 1.5 x background, respectively.
- MW-5 has been dry since installation and initial monitoring on 7/14/2008
- 2020 Q2 monitoring not conducted due to COVID-19 restrictions.
- Historical data prior to 2019 can be found in earlier posted versions of this table

Table 2 (continued)

Location ID	Sample Date	Aluminum (mg/L)	Arsenic (mg/L)	Beryllium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Calcium (mg/L)	Iron (mg/L)	Lead (mg/L)	Lithium (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)	Barium (mg/L)
MW-5	9/17/2020	DRY																					
MW-5	11/23/2020	DRY																					
MW-5	5/12/2021	DRY																					
MW-5	11/18/2021	DRY																					
MW-5	3/24/2022	DRY																					
MW-5	5/10/2022	DRY																					
MW-5	11/8/2022	DRY																					
MW-5	5/30/2023	DRY																					
MW-5	11/14/2023	DRY																					
MW-5	5/15/2024	DRY																					
MW-6	3/9/2020	<0.3	0.0005	<0.05	0.30	0.00016	<0.05	<0.05	0.06	----	<0.2	<0.0001	0.48	----	**0.40**	<0.0002	0.110	----	**0.0401**	----	<0.03	<0.05	----
MW-6	9/16/2020	0.19	0.0009	<0.01	0.31	0.00011	0.01	0.03	<0.01	----	0.19	0.0006	0.49	----	**0.39**	<0.0002	0.088	----	0.0064	----	<0.01	0.020	----
MW-6	11/23/2020	<0.25	<0.001	<0.05	0.33	<0.00025	<0.05	<0.05	<0.05	----	<0.3	<0.0005	0.45	----	**0.33**	<0.0002	0.114	----	0.0155	----	<0.05	0.110	----
MW-6	2/22/2021	<0.25	<0.001	<0.05	0.33	<0.00025	<0.05	<0.05	<0.05	----	<0.3	<0.0005	0.476	----	**0.32**	<0.0002	0.0810	----	0.00487	----	<0.05	<0.1	----
MW-6	5/19/2021	<0.05	0.00237	<0.01	0.38	0.000058	<0.02	<0.02	<0.01	315	0.13	<0.0001	0.47	344	**0.36**	<0.0002	0.058	9.9	0.0023	810	<0.01	<0.02	----
MW-6	8/31/2021	<0.05	<0.001	<0.01	0.24	<0.00025	<0.02	<0.02	<0.01	410	<0.06	<0.0005	0.49	498	**0.28**	<0.0002	0.085	11.2	0.0148	575	<0.01	<0.02	----
MW-6	11/18/2021	<0.05	<0.001	<0.01	0.25	<0.00025	<0.1	<0.02	<0.01	383	<0.06	<0.0005	0.47	473	**0.24**	<0.0002	0.076	10.3	0.0153	589	<0.01	<0.02	----
MW-6	3/22/2022	<0.25	<0.001	<0.05	0.21	<0.00025	<0.1	<0.1	<0.05	488	<0.3	<0.0005	0.43	460	0.08	<0.0002	<0.04	11.5	**0.0465**	362	<0.05	<0.1	----
MW-6	5/17/2022	<0.25	<0.0002	<0.05	0.32	<0.00005	<0.1	0.012	<0.05	440	<0.3	<0.0001	0.46	422	0.20	<0.0002	0.121	10.9	**0.0538**	522	<0.05	<0.1	----
MW-6	8/15/2022	<0.25	0.00040	<0.05	0.19	0.000131	<0.1	0.020	<0.05	421	0.70	<0.0001	0.43	410	**0.29**	<0.0002	**0.409**	10.8	0.0112	456	<0.05	<0.1	----
MW-6	11/7/2022	<0.25	<0.001	<0.05	0.28	<0.00025	<0.1	**0.061**	<0.05	414	0.32	<0.0005	0.43	411	**0.61**	<0.0002	**0.320**	10.3	<0.0005	473	<0.05	<0.1	----
MW-6	3/6/2023	<0.05	0.00109	<0.01	0.25	<0.00025	<0.1	**0.063**	<0.01	413	1.55	<0.0005	0.42	416	**0.84**	<0.0002	0.102	10.7	<0.0005	558	<0.01	<0.02	----
MW-6	5/30/2023	<0.05	<0.001	<0.01	0.24	<0.00025	<0.02	**0.054**	<0.01	398	1.12	<0.0005	0.46	421	**0.66**	<0.0002	0.090	10.5	0.0032	566	<0.01	0.028	----
MW-6	8/8/2023	0.057	0.00076	0.012	0.27	<0.0001	<0.02	0.043	0.011	402	1.34	<0.0002	0.49	422	**0.51**	<0.0002	0.078	11.5	0.0053	532	<0.01	0.039	----
MW-6	11/14/2023	<0.25	<0.001	<0.05	0.24	<0.00025	<0.1	0.035	<0.05	414	0.86	<0.0005	0.43	408	**0.42**	<0.0002	0.083	11.3	0.0045	521	<0.05	<0.1	----
MW-6	3/11/2024	<0.25	0.00120	<0.01	0.26	<0.00025	<0.02	0.036	<0.01	386	1.35	<0.0005	0.4	398	**0.42**	<0.0002	0.068	9.9	<0.0005	543	<0.01	0.095	----
MW-6	5/15/2024	<0.25	0.00146	<0.05	0.287	0.000153	<0.1	0.0298	<0.05	402	0.784	<0.0001	0.383	389	**0.44**	<0.0002	0.0745	10.5	0.0002	605	<0.05	<0.1	----
MW-6	8/26/2024	<0.35	0.00191	<0.05	0.261	<0.00025	<0.1	0.034	<0.05	376	1.04	<0.0005	0.37	357.00	0.42	<0.0002	0.0495	9.4	<0.0005	584	<0.05	<0.1	----
MW-7	3/9/2020	<0.3	<0.0002	<0.05	0.20	0.00011	<0.05	<0.05	<0.05	----	<0.2	<0.0001	0.60	----	<0.05	<0.0002	<0.04	----	**0.0701**	----	<0.03	<0.05	----
MW-7	9/16/2020	0.16	<0.0002	<0.01	0.14	0.00007	0.01	<0.01	<0.01	----	0.15	0.0002	0.43	----	0.01	<0.0002	0.013	----	**0.0655**	----	<0.01	<0.02	----
MW-7	11/23/2020	<0.25	<0.001	<0.05	0.15	<0.00025	<0.05	<0.05	<0.05	----	<0.3	<0.0005	0.38	----	<0.05	<0.0002	<0.04	----	**0.0452**	----	<0.05	<0.1	----
MW-7	2/22/2021	<0.25	<0.001	<0.05	0.20	<0.00025	<0.05	<0.05	<0.05	----	<0.3	<0.0005	0.63	----	<0.05	<0.002	<0.04	----	**0.0348**	----	<0.05	<0.1	----
MW-7	5/19/2021	<0.05	<0.0002	<0.01	0.14	0.000057	<0.02	<0.02	<0.01	460	<0.06	<0.0001	0.47	530	<0.01	<0.0002	0.023	13.7	**0.0401**	393	<0.01	<0.02	----
MW-7	8/31/2021	<0.05	<0.001	<0.01	0.31	<0.00025	<0.02	<0.02	<0.01	391	<0.06	<0.0005	0.52	397	0.07	<0.0002	0.016	10.8	0.0115	666	<0.01	<0.02	----
MW-7	11/18/2021	<0.05	<0.001	<0.01	0.19	<0.00025	<0.1	<0.02	<0.01	429	<0.06	<0.0005	0.38	386	0.06	<0.0002	0.016	10.6	**0.0284**	402	<0.01	<0.02	----
MW-7	3/22/2022	<0.25	<0.001	<0.05	0.39	<0.00025	<0.1	<0.1	<0.05	396	<0.3	<0.0005	0.55	428	0.06	<0.0002	<0.04	10.8	0.0114	671	<0.05	<0.1	----
MW-7	5/10/2022	<0.25	<0.001	<0.05	0.37	<0.00025	<0.1	0.0023	<0.05	376	<0.3	<0.0005	0.55	392	0.09	<0.0002	<0.04	10.1	0.0055	662	<0.05	<0.1	----
MW-7	8/15/2022	<0.25	0.0004	<0.05	0.29	0.000067	<0.1	0.0028	<0.05	346	0.44	<0.0001	0.54	371	0.07	<0.0002	<0.04	10.5	0.0008	703	<0.05	<0.1	----
MW-7	11/7/2022	<0.25	<0.001	<0.05	0.16	<0.00025	<0.1	0.0018	<0.05	454	<0.3	<0.0005	0.34	365	<0.05	<0.0002	<0.04	11.3	**0.0371**	306	<0.05	<0.1	----
MW-7	3/6/2023	<0.25	<0.002	<0.05	0.32	<0.0005	<0.1	0.0040	<0.05	384	<0.3	<0.001	0.56	449	0.06	<0.0002	<0.04	11.2	<0.001	706	<0.05	<0.1	----
MW-7	5/30/2023	<0.05	<0.001	<0.01	0.17	<0.00025	<0.02	0.0021	<0.01	466	0.09	<0.0005	0.45	519	<0.01	<0.0002	0.023	13.1	**0.0981**	360	<0.01	<0.02	----
MW-7	8/8/2023	0.057	<0.0004	0.012	0.33	<0.0001	<0.04	0.0025	0.011	385	0.17	<0.0002	0.61	436	0.08	<0.0002	0.017	12.0	0.0080	638	<0.01	<0.02	----
MW-7	11/14/2023	<0.05	<0.001	<0.01	0.36	<0.00025	<0.02	0.0014	<0.01	333	0.64	<0.0005	0.62	353	0.09	<0.0002	0.008	10.2	<0.0005	707	<0.01	<0.02	----
MW-7	3/11/2024	<0.05	<0.001	<0.01	0.15	<0.00025	<0.02	0.00243	<0.01	432	<0.06	<0.0005	0.34	379	<0.01	<0.0002	0.014	11.9	**0.0287**	370	<0.01	0.080	----
MW-7	5/15/2024	<0.25	<0.0002	<0.05	0.16	0.000125	<0.1	0.00367	0.174	475	<0.3	<0.0001	0.308	369	<0.05	<0.0002	<0.04	12.5	**0.0386**	399	<0.05	<0.1	----
MW-7	8/27/2024	<0.14	<0.001	<0.02	0.135	<0.00025	<0.04	0.00216	<0.02	449	<0.12	<0.0005	0.29	337.00	<0.02	0.00034	0.033	11.3	**0.0262**	366	<0.02	<0.04	----
MW-8	3/9/2020																						
MW-8	9/16/2020																						
MW-8	9/28/2020	<0.25	0.0138	<0.05	1.2	<0.00025	<0.05	<0.05	<0.05	----	2.62	<0.0005	0.51		**0.30**	<0.0002	<0.04		0.0008		<0.05	<0.1	----
MW-8	11/9/2020																						
MW-8	11/23/2020	<0.25	0.00219	<0.05	0.82	<0.00025	<0.05	<0.05	<0.05	----	<0.3	<0.0005	0.33	----	**0.25**	<0.0002	<0.04	----	<0.0005	----	<0.05	<0.1	----
MW-8	2/22/2021	<0.05	0.00350	<0.01	0.85	<0.00025	<0.01	<0.01	<0.01	----	<0.06	<0.0005	0.36	----	**0.31**	<0.0002	<0.008	----	<0.0005	----	<0.01	<0.02	----
MW-8	5/19/2021	<0.05	0.00155	<0.01	0.89	0.000065	<0.04	<0.02	<0.01	93	<0.06	0.00016	0.37	31	**0.28**	<0.0002	<0.008	6.2	0.0002	1250	<0.01	<0.02	----
MW-8	8/31/2021	<0.05	0.00124	<0.01	0.78	<0.00025	<0.02	<0.02	<0.01	111	<0.06	<0.0005	0.38	39	**0.32**	<0.0002	<0.008	5.9	<0.0005	1300	<0.01	<0.02	----
MW-8	11/18/2021	<0.05	<0.001	<0.01	0.80	<0.00025	<0.1	<0.02	<0.01	107	<0.06	<0.0005	0.38	47	**0.27**	<0.0002	<0.008	6.4	<0.0005	1150	<0.02	<0.02	----
MW-8	3/28/2022	<0.1	0.00279	<0.02	0.60	<0.0001	<0.04	<0.04	<0.02	60	<0.12	0.00036	0.26	20	0.20	<0.0002	<0.016	4.3	<0.0002	805	<0.02	<0.04	----
MW-8	5/17/2022	<0.1	0.00427	<0.02	0.88	<0.00005	<0.04	<0.04	<0.02	77	<0.12	<0.0001	0.39	29	**0.30**	<0.0002	<0.016	5.3	<0.0001	1180	<0.02	<0.04	----
MW-8	8/15/2022	<0.1	0.00767	<0.02	0.81	<0.00005	<0.04	<0.04	<0.02	68	0.83	<0.0001	0.37	27	**0.24**	<0.0002	<0.016	5.4	<0.0002	1110	<0.02	<0.04	----
MW-8	11/7/2022	<0.1	0.00542	<0.02	0.85	<0.0001	<0.04	0.00051	<0.02	68	0.89	<0.0002	0.37	27	**0.24**	<0.0002	<0.016	5.4	<0.0005	1160	<0.02	<0.04	----
MW-8	3/6/2023	<0.1	0.00511	<0.02	0.89	<0.0001	<0.04	0.00055	<0.02	52	0.86	<0.0002	0.36	28	**0.23**	<0.0002	<0.016	5.6	<0.0002	1240	<0.02	<0.04	----
MW-8	5/30/2023	<0.05	0.00146	<0.01	0.93	<0.00025	<0.02	0.00031	<0.01	60	1.02	<0.0005	0.42	25	0.19	<0.0002	<0.008	5.5	0.0009	1280	<0.01	<0.02	----
MW-8	8/8/2023	<0.05	0.00099	0.012	0.90	<0.0001	<0.04	0.00024	<0.01	64	0.89	<0.0002	0.44	26	**0.22**	<0.0002	<0.008	6.2	<0.0002	1140	<0.01	<0.02	----
MW-8	11/14/2023	<0.05	0.00095	<0.01	0.88	<0.0001	<0.02	0.00023	<0.01	64	0.85	<0.0002	0.44	26	**0.23**	<0.0002	<0.008	6.4	<0.0002	1150	<0.01	<0.02	----
MW-8	3/11/2024	<0.05	<0.001	<0.01	0.86	<0.00025	<0.02	0.00029	<0.01	59	0.71	<0.0005	0.34	25	0.19	<0.0002	<0.008	5.2	<0.0005	1210	<0.01	0.090	----
MW-8	5/15/2024	<0.1	0.00058	<0.02	0.90	0.000084	<0.04	0.000421	<0.02	58	0.63	<0.0001	0.33	25	0.18	<0.0002	<0.016	5.4	<0.0002	1260	<0.02	<0.04	----
MW-8	8/27/2024	<0.14	0.00071	<0.02	0.845	<0.0001	<0.04	0.000212	<0.02	52.9	0.467	<0.0002	0.33	23.10	0.16	0.00041	<0.016	5.0	0.00058	1140	<0.02	<0.04	----
MW-9	3/28/2022	0.14	<0.001	<0.01	0.90	<0.00025	<0.02	<0.02	<0.01	367	<0.06	<0.0005	0.29	178	**0.61**	<0.0002	0.022	8.1	<0.0005	540	<0.01	<0.02	----
MW-9	5/17/2022	<0.25	<0.0002	<0.05	1.19	<0.00005	<0.1	0.0093	<0.05	478	<0.3	<0.0001	0.36	216	**0.76**	<0.0002	<0.04	9.3	0.0003	694	<0.05	<0.1	----
MW-9	8/15/2022	<0.25	0.00058	<0.05	1.15	0.000065	<0.1	0.0040	<0.05	417	<0.3	<0.0001	0.36	156	**0.55**	<0.0002	<0.04	9.5	<0.0001	716	<0.05	<0.1	----
MW-9	11/7/2022	<0.25	0.0007	<0.05	1.26	<0.00025	<0.1	0.0063	0.05	418	0.51	<0.0005	0.38	158	**0.55**	<0.0002	<0.04	9.0	<0.0001	741	<0.05	<0.1	----
MW-9	3/7/2023	<0.05	0.00061	<0.01	1.32	<0.00005	<0.1	0.0036	<0.01	409	0.94	<0.0001	0.38	156	**0.46**	<0.0002	<0.008	9.0	<0.0001	779	<0.01	<0.02	----
MW-9	5/31/2023	0.052	<0.001	<0.01	1.39	<0.00025	<0.02	0.0025	<0.01	415	1.39	<0.0005	0.41	161	**0.45**	<0.0002	<0.008	8.9	<0.0005	820	<0.01	<0.02	----
MW-9	8/9/2023	0.151	<0.001	<0.01	1.32	<0.00025	<0.02	0.0022	<0.01	395	1.69	<0.0005	0.44	158	**0.50**	<0.0002	<0.008	8.6	<0.0005	747	<0.01	0.738	----
MW-9	11/15/2023	<0.05	<0.001	<0.01	1.43	<0.00025	<0.02	0.0018	<0.01	408	1.77	<0.0005	0.37	159	**0.42**	<0.0002	<0.008	9.2	<0.0005	799	<0.01	<0.02	----
MW-9	3/11/2024	<0.05	0.00092	<0.01	1.40	<0.0001	<0.02	0.0018	<0.01	400	1.89	<0.0002	0.39	158	**0.38**	<0.0002	<0.008	8.8	<0.0002	809	<0.01	0.090	----
MW-9	5/20/2024	<0.25	<0.001	<0.05	1.47	<0.00025	<0.1	0.0021	<0.05	414	2.1	<0.0005	0.415	159	**0.41**	<0.0002	<0.04	8.69	<0.0005	830	<0.05	<0.1	----
MW-9	8/26/2024	<0.35	<0.001	<0.05	1.39	<0.00025	<0.1	0.00143	<0.05	405	2.16	<0.0005	0.39	156.00	**0.36**	<0.0002	<0.04	8.8	<0.0005	816	<0.05	<0.1	----
MW-10	3/28/2022	<0.25	0.00289	<0.05	0.99	<0.00025	<0.1	<0.1	<0.05	430	<0.3	0.00055	0.31	198	**0.69**	<0.0002	<0.04	8.9	<0.0005	615	<0.05	<0.1	----
MW-10	5/17/2022	<0.25	0.00321	<0.05	1.59	<0.00005	<0.1	0.00102	<0.05	83	0.51	<0.0001	0.34	24	0.07	<0.0002	<0.04	6.9	0.0004	1400	<0.05	<0.1	----
MW-10	8/15/2022	<0.25	0.00404	<0.05	1.32	<0.00005	<0.1	0.000287	<0.05	54	0.62	0.00021	0.31	16.2	<0.05	<0.0002	<0.04	6.9	<0.0002	1240	<0.05	<0.1	----
MW-10	11/7/2022	<0.25	0.00264	<0.05	1.40	<0.00025	<0.1	<0.00025	0.06	46	0.53	<0.0005	0.32	14.7	<0.05	<0.0002	<0.04	6.3	<0.0005	1240	<0.05	<0.1	----
MW-10	3/7/2023	<0.05	0.00182	<0.01	1.33	0.000052	<0.04	0.00017	<0.01	40	0.47	0.00028	0.30	12.4	0.03	<0.0002	<0.008	5.9	0.0001	1090	<0.01	<0.02	----
MW-10	5/31/2023	<0.05	0.00138	<0.01	1.35	<0.0001	<0.02	<0.0001	<0.01	38	0.41	<0.0002	0.30	11.8	0.02	<0.0002	<0.008	5.6	<0.0002	1230	<0.01	<0.02	----
MW-10	8/9/2023	<0.05	0.00110	<0.01	1.25	<0.00005	<0.02	0.000075	<0.01	33	0.33	0.0001	0.32	10.2	0.02	<0.0002	<0.008	5.5	<0.0005	1110	<0.01	<0.02	----
MW-10	11/15/2023	<0.05	0.00110	<0.01	1.31	<0.00025	<0.02	<0.00025	<0.01	29	0.27	<0.0005	0.26	8.63	<0.01	<0.0002	<0.008	5.4	<0.0005	1170	<0.01	<0.02	----
MW-10	3/11/2024	<0.05	0.00156	<0.01	1.31	<0.0001	<0.02	<0.0001	<0.01	25	0.32	0.0002	0.21	7.59	0.01	<0.0002	<0.008	4.1	<0.0002	829	<0.01	0.082	----
MW-10	5/20/2024	<0.25	0.0007	<0.05	1.33	<0.0001	<0.1	0.000163	<0.05	33.4	<0.3	<0.0002	0.23	11	<0.05	<0.0002	<0.04	4.4	<0.0002	982	<0.05	<0.1	----
MW-10	8/26/2024	<0.14	0.00072	<0.02	1.27	<0.0001	<0.04	<0.0001	<0.02	27.4	0.218	<0.0002	0.22	9.03	<0.02	<0.0002	<0.016	4.2	<0.0005	921	<0.02	<0.04	----
MW-11	3/23/2022	<0.05	<0.002	<0.01	0.41	<0.0005	<0.02	<0.02	<0.01	45	<0.06	<0.001	0.15	24	<0.01	<0.0002	<0.008	3.6	<0.002	461	<0.01	<0.02	----
MW-11	5/17/2022	<0.05	0.00078	<0.01	0.49	<0.00005	<0.02	<0.02	<0.01	52	<0.06	<0.0001	0.18	29	0.02	<0.0002	<0.008	3.4	**0.1320**	513	<0.01	<0.02	----
MW-11	8/15/2022	<0.05	0.00051	<0.01	0.45	<0.00005	<0.02	<0.02	<0.01	47	<0.06	<0.0001	0.16	26	<0.01	<0.0002	<0.008	3.5	**0.1250**	477	<0.01	<0.02	----
MW-11	11/7/2022	<0.05	0.00029	<0.01	0.43	<0.00005	<0.02	0.0023	<0.01	68	<0.06	<0.0001	0.15	34	0.02	<0.0002	0.011	3.7	**0.1620**	412	<0.01	<0.02	----
MW-11	3/6/2023	<0.05	<0.0002	<0.01	0.46	<0.00005	<0.02	0.00043	<0.01	53	<0.06	<0.0001	0.14	28	<0.01	<0.0002	<0.008	3.4	**0.1140**	435	<0.01	<0.02	----
MW-11	5/31/2023	<0.05	0.00025	<0.01	0.48	<0.00005	<0.02	0.0001	<0.01	46	<0.06	<0.0001	0.17	29	0.02	<0.0002	<0.008	3.7	**0.0386**	563	<0.01	<0.02	----
MW-11	8/8/2023	<0.05	0.00180	0.012	0.47	<0.0001	<0.02	0.0002	0.01	68	0.06	<0.0002	0.19	36	0.11	<0.0002	<0.008	4.1	0.0007	494	<0.01	<0.02	----
MW-11	11/15/2023	0.526	0.00041	<0.01	0.44	<0.00005	<0.02	0.00054	<0.01	91	0.19	<0.0001	0.16	44	0.07	<0.0002	<0.008	4.4	**0.0421**	422	<0.01	<0.02	----
MW-11	3/11/2024	<0.05	0.00021	<0.01	0.44	<0.00005	<0.02	0.000789	<0.01	71	0.17	<0.0001	0.14	36	0.03	<0.0002	<0.008	3.5	<0.0001	414	<0.01	0.071	----
MW-11	5/20/2024	<0.05	0.00023	<0.01	0.43	<0.00005	<0.02	0.000505	<0.01	55	<0.06	<0.0001	0.15	31	0.01	<0.0002	<0.008	3.4	**0.0487**	455	<0.01	<0.02	----
MW-11	8/27/2024	<0.07	<0.0002	<0.01	0.437	<0.00005	<0.02	0.000256	<0.01	56.9	<0.06	<0.0001	0.16	33.80	<0.01	0.00036	<0.008	3.6	**0.0284**	513	<0.01	<0.02	----
MW-12	3/28/2022	<0.05	0.00464	<0.01	0.60	<0.00005	<0.02	<0.02	<0.01	11	<0.06	<0.0001	0.11	3.12	0.01	<0.0002	<0.008	2.2	<0.0002	488	<0.01	<0.02	----
MW-12	5/17/2022	<0.05	0.00233	<0.01	0.80	<0.00005	<0.02	<0.02	<0.01	14	<0.06	<0.0001	0.17	4.55	0.03	<0.0002	<0.008	2.9	0.0007	707	<0.01	<0.02	----
MW-12	8/15/2022	<0.1	0.00157	<0.02	0.79	<0.00005	<0.04	<0.04	<0.02	26	<0.12	<0.0002	0.19	6.19	<0.02	<0.0002	<0.016	3.7	<0.0002	805	<0.02	<0.04	----
MW-12	11/7/2022	<0.1	0.00081	<0.02	0.84	<0.0001	<0.04	0.0017	<0.02	26	<0.12	<0.0002	0.20	7.38	0.07	<0.0002	0.099	4.1	0.0008	861	<0.02	<0.04	----
MW-12	3/6/2023	<0.1	0.00302	<0.02	0.87	<0.0001	<0.04	0.00095	<0.02	24	<0.12	0.00021	0.21	8.32	0.04	<0.0002	0.048	4.0	0.0004	967	<0.02	<0.04	----
MW-12	5/31/2023	<0.05	0.00203	<0.01	0.89	<0.0001	<0.02	0.00037	<0.01	21	0.30	0.00028	0.21	8.70	0.10	<0.0002	<0.008	3.9	<0.0002	958	<0.01	<0.02	----
MW-12	8/8/2023	<0.05	0.00241	0.012	0.93	<0.0001	<0.02	0.00062	0.013	24	0.19	0.00021	0.27	9.05	0.11	<0.0002	<0.008	4.8	<0.0005	879	<0.01	<0.02	----
MW-12	11/15/2023	<0.05	0.00246	<0.01	0.93	<0.0001	<0.02	0.00082	<0.01	27	0.12	<0.0002	0.26	10.30	0.09	<0.0002	<0.008	5.2	<0.001	909	<0.01	<0.02	----
MW-12	3/11/2024	<0.05	0.00271	<0.01	0.90	<0.0001	<0.02	0.000756	<0.01	26	0.19	<0.0002	0.21	10.20	0.08	<0.0002	<0.008	4.03	<0.001	971	<0.01	0.092	----
MW-12	5/20/2024	<0.25	0.00263	<0.05	0.96	<0.0001	<0.1	0.000603	<0.05	24	<0.3	<0.0002	0.21	9.63	0.06	<0.0002	<0.04	3.82	<0.0002	977	<0.05	<0.1	----
MW-12	8/27/2024	<0.14	0.00285	<0.02	0.889	<0.0001	<0.04	0.000592	<0.02	22.6	<0.12	<0.0002	0.22	9.53	0.05	<0.0002	<0.016	4.0	0.00472	973	<0.02	<0.04	----
MW-13	3/23/2022	<0.1	0.00178	<0.02	0.94	<0.0001	<0.04	<0.04	<0.02	5	<0.12	<0.0002	0.18	1.45	<0.02	<0.0002	<0.016	2.9	<0.0002	885	<0.02	<0.04	----
MW-13	5/10/2022	<0.1	0.00075	<0.02	0.95	<0.0001	<0.04	<0.04	<0.02	4	<0.12	<0.0002	0.18	1.00	<0.02	<0.0002	<0.016	2.4	0.0184	782	<0.02	<0.04	----
MW-13	8/15/2022	<0.1	0.00285	<0.02	1.00	<0.00005	<0.04	<0.04	<0.02	8	<0.12	<0.0001	0.21	1.74	<0.02	<0.0002	<0.016	3.1	<0.0002	910	<0.02	<0.04	----
MW-13	11/8/2022	<0.1	0.00102	<0.02	1.03	<0.00025	<0.04	<0.00025	<0.02	7	<0.12	<0.0002	0.23	1.67	<0.02	<0.0002	<0.016	3.1	<0.0002	977	<0.02	<0.04	----
MW-13	3/6/2023	<0.1	<0.001	<0.02	1.09	<0.00025	<0.04	<0.00025	<0.02	8	<0.12	<0.0005	0.24	2.21	<0.02	<0.0002	<0.016	3.1	<0.0002	1060	<0.02	<0.04	----
MW-13	5/30/2023	<0.05	0.00044	<0.01	1.04	0.00012	<0.02	0.00022	<0.01	6	<0.06	0.00043	0.28	1.82	<0.01	<0.0002	<0.008	2.9	<0.001	1050	<0.01	<0.02	----
MW-13	8/8/2023	<0.05	<0.0004	0.012	1.06	<0.0001	<0.02	<0.0001	<0.01	6	<0.06	<0.0002	0.28	1.82	0.01	<0.0002	<0.008	3.8	<0.0005	945	<0.01	<0.02	----
MW-13	11/14/2023	<0.05	0.0004	<0.01	1.07	<0.0001	<0.02	<0.0001	<0.01	7	<0.06	<0.0002	0.27	1.74	<0.01	<0.0002	<0.008	3.6	<0.0002	891	<0.01	<0.02	----
MW-13	3/11/2024	<0.05	<0.0001	<0.02	1.07	<0.00025	<0.02	<0.00025	<0.01	7	<0.06	<0.0005	0.22	1.93	<0.01	<0.0002	<0.008	2.9	<0.0005	976	<0.02	0.067	----
MW-13	5/15/2024	<0.1	0.00044	<0.02	1.12	<0.00005	<0.04	0.000087	<0.02	8	<0.12	<0.0001	0.218	1.98	<0.02	<0.0002	<0.016	3.09	<0.0002	1100	<0.02	<0.04	----
MW-13	9/4/2024	<0.14	0.00043	<0.02	1.04	<0.00005	<0.04	0.000065	<0.02	6.8	<0.12	<0.0001	0.24	2.05	<0.02	<0.0002	<0.016	2.5	<0.0002	1040	<0.02	<0.04	----
MW-14	3/28/2022	<0.1	0.00533	<0.02	1.46	<0.0001	<0.04	<0.04	<0.02	85	<0.12	<0.0002	0.32	23	<0.02	<0.0002	<0.016	7.1	0.0098	1260	<0.02	<0.1	----
MW-14	5/17/2022	<0.1	0.00382	<0.02	1.26	0.000066	<0.04	<0.04	<0.02	16	<0.12	<0.0001	0.40	4.75	<0.02	<0.0002	<0.016	4.6	0.0012	1390	<0.02	<0.04	----
MW-14	8/15/2022	<0.25	0.0059	<0.05	1.17	<0.00005	<0.1	0.00075	<0.05	17	<0.3	<0.0002	0.36	4.86	<0.05	<0.0002	<0.04	5.3	<0.0002	1450	<0.05	<0.1	----
MW-14	11/8/2022	<0.25	0.00448	<0.05	1.24	<0.0005	<0.1	0.00086	<0.05	18	0.36	<0.001	0.36	4.99	<0.05	<0.0002	<0.04	5.7	<0.001	1610	<0.05	<0.1	----
MW-14	3/6/2023	<0.25	0.00531	<0.05	1.32	<0.00025	<0.1	0.00066	<0.05	19	0.81	<0.0005	0.38	6.44	<0.05	<0.0002	<0.04	5.3	<0.0005	1740	<0.05	<0.1	----
MW-14	5/30/2023	0.053	0.00408	<0.01	1.21	<0.00025	<0.02	0.00062	<0.01	17	0.68	0.00084	0.50	5.47	0.04	<0.0002	<0.008	5.0	<0.002	1770	<0.01	0.063	----
MW-14	8/8/2023	<0.05	0.00436	0.012	1.30	<0.0001	<0.1	0.00036	0.01	19	1.10	<0.0005	0.52	5.89	0.06	<0.0002	<0.008	6.2	<0.0005	1750	<0.01	<0.02	----
MW-14	11/14/2023	<0.05	0.00236	<0.01	1.23	<0.00025	<0.02	<0.00025	<0.01	16	0.53	<0.0005	0.56	5.39	0.03	<0.0002	<0.008	5.7	<0.0005	1590	<0.01	<0.02	----
MW-14	3/11/2024	<0.05	0.0036	<0.01	1.29	<0.00025	<0.02	<0.00025	<0.05	18	0.98	<0.0005	0.42	5.91	0.03	<0.0002	<0.008	5.4	<0.0005	1850	<0.01	0.093	----
MW-14	5/15/2024	<0.25	0.00435	<0.05	1.28	0.000178	<0.1	0.000192	<0.05	18	0.92	<0.0001	0.40	5.43	<0.05	<0.0002	<0.04	5.6	<0.0002	1900	<0.05	<0.1	----
MW-14	9/4/2024	<0.35	0.00303	<0.05	1.34	<0.00025	<0.1	0.000113	<0.05	18.6	0.977	<0.0005	0.45	6.35	<0.05	<0.0002	<0.04	4.7	<0.0005	1840	<0.05	<0.1	----
MW-15	6/11/2024	DRY																					
MW-15	8/26/2024	DRY																					
MW-16	6/25/2024	DRY																					
MW-16	8/26/2024	DRY																					
MW-17	6/11/2024	DRY																					
MW-17	8/26/2024	DRY																					
MW-18	6/11/2024	<0.07	0.00153	0.011	0.51	<0.00005	<0.02	0.000771	<0.01	58	0.07	<0.0001	0.12	13.40	0.05	<0.0002	<0.008	3.4	0.00137	220	<0.01	<0.02	----
MW-18	8/26/2024	<0.07	0.00236	<0.01	0.636	<0.00005	<0.02	0.000582	<0.01	42	<0.06	<0.0001	0.12	10.30	0.05	<0.0002	<0.008	2.9	<0.0001	252	<0.01	<0.02	----
MW-19	6/10/2024	<0.07	<0.0002	<0.01	0.45	<0.00005	<0.02	0.000105	<0.01	12.7	<0.06	<0.0001	0.12	5.72	<0.01	<0.0002	<0.008	2.6	<0.002	491	<0.01	<0.02	----
MW-19	8/27/2024	<0.07	<0.0002	<0.01	0.421	<0.00005	<0.02	0.000062	<0.01	10.9	<0.06	<0.0001	0.11	5.64	<0.01	<0.0002	<0.008	2.4	0.00209	456	<0.01	<0.02	----
MW-20	6/10/2024	<0.14	0.00392	<0.02	0.78	<0.00005	<0.04	0.000329	<0.02	15.1	<0.12	<0.0001	0.17	4.06	<0.02	<0.0002	<0.016	3.9	<0.0002	840	<0.02	<0.04	----
MW-20	8/27/2024	<0.14	0.00319	<0.02	0.763	<0.0001	<0.04	0.000176	<0.02	10.1	<0.12	<0.0002	0.18	3.69	0.02	<0.0002	<0.016	3.8	<0.0002	823	<0.02	<0.04	----
MW-21	6/10/2024	<0.14	<0.0002	<0.02	0.68	<0.00005	<0.04	0.000133	<0.02	12.2	<0.12	<0.0001	0.26	9.03	<0.02	<0.0002	<0.016	2.9	<0.0002	910	<0.02	<0.04	----
MW-21	9/4/2024	<0.14	<0.0002	<0.02	0.636	<0.00005	<0.04	0.000101	<0.02	8.87	<0.12	<0.0001	0.24	6.10	<0.02	<0.0002	<0.016	2.1	<0.0002	857	<0.02	<0.04	----
MW-22	6/25/2024	<0.07	0.00751	<0.01	0.29	<0.00005	<0.02	0.00011	<0.01	4.6	<0.06	<0.0001	0.06	0.82	0.03	<0.0002	<0.008	0.8	0.00119	286	<0.01	0.125	----
MW-22	9/4/2024	<0.07	0.00484	<0.01	0.386	<0.00005	<0.02	0.000143	0.016	4.04	<0.06	<0.0001	0.09	0.98	0.01	<0.0002	<0.008	1.4	<0.0001	475	<0.01	<0.02	----
MW-23	6/10/2024	<0.07	0.00146	<0.01	0.11	<0.00005	<0.02	0.000433	<0.01	21.2	<0.06	<0.0001	0.05	6.89	0.02	<0.0002	<0.008	3.3	0.0112	165	<0.01	<0.02	----
MW-23	9/4/2024	<0.07	0.00149	<0.01	0.165	<0.00005	<0.02	0.000487	<0.01	21.7	0.066	<0.0001	0.08	7.34	0.01	<0.0002	<0.008	3.1	0.00935	277	<0.01	<0.02	----
MW-24	6/10/2024	<0.07	0.00651	<0.01	0.28	<0.00005	<0.02	0.000067	<0.01	4.57	<0.06	<0.0001	0.03	1.40	<0.01	<0.0002	<0.008	1.3	0.00284	181	<0.01	<0.02	----
MW-24	9/4/2024																						
Field QA/QC Samples																							
MW-6 (duplicate)	5/15/2024	<0.25	0.0013	<0.05	0.261	0.000133	<0.1	0.0303	<0.05	400	0.69	<0.0001	0.384	386	**0.44**	<0.0002	0.07	10.3	0.00017	589	<0.05	<0.1	----
MW-6 (duplicate)	8/26/2024	<0.35	0.00155	<0.05	0.256	<0.00025	<0.1	0.0328	<0.05	383	0.9	<0.0005	0.38	363.00	**0.44**	<0.0002	0.046	9.8	<0.0005	589	<0.05	<0.1	----
MW-7 (duplicate)	3/9/2020	<0.3	<0.0002	<0.05	0.10	0.0001	<0.05	<0.05	<0.05	----	<0.2	<0.0001	0.60	----	<0.05	<0.0002	<0.04	----	**0.0704**	----	<0.03	<0.05	----
MW-7 (duplicate)	9/16/2020	0.11	<0.0002	<0.01	0.13	0.00007	0.01	<0.01	<0.01	----	0.12	0.0002	0.43	----	0.01	<0.0002	0.010	----	**0.0654**	----	<0.01	<0.02	----
MW-7 (duplicate)	2/22/2021	<0.05	<0.001	<0.01	0.17	<0.00025	<0.01	<0.01	<0.01	----	<0.06	<0.0005	0.62	----	0.02	<0.0002	0.020	----	**0.0329**	----	<0.01	<0.02	----
MW-7 (duplicate)	5/19/2021	<0.05	<0.0002	<0.01	0.14	0.000068	<0.02	<0.02	<0.01	457	<0.06	<0.0001	0.47	528	<0.01	<0.0002	0.012	13.9	**0.0398**	390	<0.01	<0.02	----
MW-7 (duplicate)	8/31/2021	<0.05	<0.001	<0.01	0.31	<0.00025	<0.02	<0.02	<0.01	390	<0.06	<0.0005	0.52	396	0.07	<0.0002	0.017	10.9	0.0109	661	<0.01	<0.02	----
MW-7 (duplicate)	3/22/2022	<0.25	<0.001	<0.05	0.35	<0.00025	<0.1	<0.1	<0.05	383	<0.3	<0.0005	0.52	431	<0.05	<0.0002	<0.04	10.5	0.0119	642	<0.05	<0.1	----
MW-7 (duplicate)	5/10/2022	<0.25	<0.001	<0.05	0.39	<0.00025	<0.1	0.0022	<0.05	373	<0.3	<0.0005	0.56	389	0.10	<0.0002	<0.04	10.3	0.0061	675	<0.05	<0.1	----
MW-7 (duplicate)	3/6/2023	<0.05	<0.0004	<0.01	0.29	<0.0001	<0.1	0.0039	<0.01	388	0.09	<0.0002	0.54	443	0.07	<0.0002	0.026	11.7	0.0056	677	<0.01	<0.02	----
MW-7 (duplicate)	3/11/2024	<0.05	<0.0001	<0.01	0.14	<0.00025	<0.2	0.00193	<0.02	446	<0.06	<0.0005	0.329	382	<0.01	<0.0002	0.0131	12	**0.0294**	354	<0.01	0.085	----
MW-8 (duplicate)	11/23/2020	<0.25	0.00234	<0.05	0.83	<0.00025	<0.05	<0.05	<0.05	----	<0.3	<0.0005	0.34	----	**0.25**	<0.0002	<0.04	----	<0.0005	----	<0.05	<0.1	----
MW-8 (duplicate)	11/18/2021	<0.05	0.00084	<0.01	0.81	<0.0001	<0.04	<0.02	<0.01	104	<0.06	<0.0002	0.38	43	**0.27**	<0.0002	<0.008	6.3	<0.0002	1150	<0.02	<0.02	----
MW-8 (duplicate)	8/15/2022	<0.1	0.00788	<0.02	0.80	<0.00005	<0.04	<0.04	<0.02	68	0.83	<0.0001	0.36	27	**0.24**	<0.0002	<0.016	5.4	<0.0002	1100	<0.02	<0.04	----
MW-8 (duplicate)	11/7/2022	<0.1	0.00533	<0.02	0.87	<0.0001	<0.04	0.00052	<0.02	70	0.86	<0.0002	0.37	28	**0.25**	<0.0002	<0.016	5.7	<0.0005	1160	<0.02	<0.04	----
MW-8 (duplicate)	8/8/2023	<0.05	0.00096	0.012	0.90	<0.0001	<0.02	0.0003	0.01	66	0.87	<0.0002	0.45	27	**0.24**	<0.0002	<0.008	6.3	<0.0002	1160	<0.01	<0.02	----
MW-11 (duplicate)	5/31/2023	<0.05	0.00022	<0.01	0.48	<0.00005	<0.02	0.0001	<0.01	46	<0.06	<0.0001	0.17	29	<0.01	<0.0002	<0.008	3.3	0.0019	549	<0.01	<0.02	----
MW-12 (duplicate)	11/15/2023	<0.05	0.00293	<0.01	0.93	<0.00025	<0.02	0.0008	<0.01	27	0.10	<0.0005	0.21	10.10	0.09	<0.0002	<0.008	4.5	<0.0005	973	<0.01	<0.02	----
MW-21 (duplicate)	6/10/2024	<0.14	<0.0002	<0.02	0.68	<0.00005	<0.04	0.000139	<0.02	12.1	<0.12	<0.0001	0.25	8.43	<0.02	<0.0002	<0.016	2.8	<0.0002	920	<0.02	<0.04	----
MW-21 (duplicate)	9/4/2024	<0.14	<0.0002	<0.02	0.637	<0.00005	<0.04	0.000103	<0.02	8.71	<0.12	<0.0001	0.24	6.06	<0.02	<0.0002	<0.016	2.2	<0.0002	857	<0.02	<0.04	----
CDPHE Regulation 41 Table 3 Groundwater Quality Reference Standards (Agricultural Use)[1]		*5.00*	*0.1000*	*0.10*	*5.00*	*0.01000*	*0.10*	*0.05000*	*0.2*	----	*5.00*	*0.1000*	*2.50*	----	*0.20*	*0.0100*	*0.200*	----	*0.0200*	----	*0.10*	*2.00*	----

Notes:
- Concentration in bold indicate exceedance of the CDPHE Groundwater Quality Reference Standard for Agricultural Use as applicable to the facility.
- Underlined values exceeded the method hold time for analysis.
- The applicable facility standards established for boron (5.0 mg/L) and total dissolved solids (<10,000) are different than the CDPHE agricultural use standards; 0.75 mg/L and 1.5 x background, respectively.
- MW-5 has been dry since installation and initial monitoring on 7/14/2008
- 2020 Q2 monitoring not conducted due to COVID-19 restrictions.
- Historical data prior to 2019 can be found in earlier posted versions of this table

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INORGANIC DATA QUALITY REVIEW REPORT
METALS BY ICPMS, ICP, CVAA, WET CHEMISTRY AND SPECIAL METHODS

SDG	L89810, L89854, L89982
PROJECT	GCC Rio Grande –Third Quarter 2024, Resource Hydrogeologic Services and GCC, Pueblo CO
LABORATORY	ACZ Laboratories, Steamboat Springs, CO
SAMPLE MATRIX	Water SAMPLING DATE: 8/26, 8/27, 9/4/2024
ANALYSES REQUESTED	EPA 200.7 (metals by ICP, dissolved), EPA 200.8 (metals by ICPMS, dissolved), EPA 245.1 (mercury, dissolved), SM4500F-C (Fluoride), M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen); SM2540C (total dissolved solids); D516-02/-07/-11 -Sulfate by turbidimetry; SM4500Cl-E (Chloride), SM 2320 B-2011 (Alkalinity)
SAMPLE NUMBER	MW-13, MW-14, MW-6, MW-7, MW-8, MW-2B, METHOD BLANK, MW-11, MW-12, MW-9, MW-10, MW-21, MW-23, MW-3B, MW-19, MW-20, MW-18, MW-22

DATA REVIEWER: John Huntington

QA REVIEWER: Diane Short & Associates, Inc. INITIALS/DATE: ___DLS___10/25/2024

Telephone Logs included Yes____ No __X_
Contractual Violations Yes____ No __X_

The Contract Laboratory Program National Functional Guidelines for Inorganic Data Review 2016 (NFG) and the requested EPA Methods, Methods of Chemical Analysis of Water and Wastes (MCAWW) and Standard Methods (SM, current updates) have been referenced by the reviewer to perform this data validation review. The review includes evaluation of calibration, holding times and Quality Control (QC) for all samples; and 10% review of transcription and calculation algorithms from the raw data. Determining the exact analytical sequence was performed to verify that the frequencies of QC sample analyses were met, where applicable, on 10% of the data. General comments regarding the data/analytical quality are part of the review when raw data are submitted. The reports use Diane Short & Associates (DSA) validation qualifiers in the text and tables that include the compilation of the reasons for qualification and the associated values, as defined in each section for QC outliers. The United States Environmental Protection Agency (EPA) qualifiers have been provided. The DSA qualifiers, EPA qualifiers, and validation codes are included in the Electronic Data Deliverable (EDD). Note: those items in this report which have an asterisk (*) are specific to inductively coupled plasma-mass spectrometry (ICP-MS) and may include inductively coupled plasma-atomic emission spectroscopy (ICP-AES) as applicable.

I. DELIVERABLES

All deliverables were present as specified in the Statement of Work (SOW), SW-846, or in the project contract. This includes the Case Narrative.

Yes X No _____

Data were submitted for EPA 200.7 (16 metals by ICP, dissolved), EPA 200.8 (4 metals by ICPMS, dissolved), EPA 245.1 (mercury, dissolved), SM4500F-C (Fluoride), M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen); SM2540C (total dissolved solids); D516-02/-07/-11 -Sulfate by turbidimetry; SM4500Cl-E (Chloride), SM 2320 B-2011 (Alkalinity). Note that for these SDGs, pH was not requested.

The data were validated at EPA Level III (EPA Stage 2B) with a minimum of 10% validated as EPA raw data review).

The laboratory has reported detections to the MDL and has flagged results between the MDL and the PQL with a "B". This is noted because many laboratories use "J" instead of "B" for this purpose, so the meaning of this flag needs to be kept in mind when reviewing the data. The definition of lab flags is provided in the report in the Inorganic Reference section.

II. ANALYTICAL REPORT FORMS

A. The Analytical Report or Data Sheets are present and complete for all requested analyses.

Yes X No _____

B. Holding Times

1. The contract holding times were met for all analyses (time of sample receipt to date of analysis).

Yes X No _____ N/A _____

Data are qualified from date of collection to analysis, as presented in the next section.

2. The method holding times were met for all analyses (time of sample collection to date of analysis per the holding times in the project QAPP).

Yes _____ No X

SDG L89854 – 3rd Quarter-The method holding times were met for all analyses except for one TDS sample. Results reported by the lab outside of hold are qualified as JH#, where # is the number of days since sampling. An outlier that is greater than 4x the hold time is rejected. Qualified results not rejected should be considered as estimates due to time and temperature changes in the samples. In this case, the holding time was missed because the laboratory had to dilute the sample and reprepare it to meet method criteria.

CLIENTID	LABID	ANALYTE	RESULT	QUAL	UNITS	MDL	PQL	DSA	EPA
MW-7	L89854-01	Residue, Filterable (TDS) @180C	4560	H	mg/L	40	80	JH4	J

3. Samples were properly preserved to pH < 2 for metals, and applicable preservative was used for other methods.

Yes X No _____ N/A _____

C. Chains of Custody (COC)

Chains of Custody (COC) were reviewed and all fields were complete, signatures were present, and cross outs were clean and initialed.

Yes X No _____

All sample analyses were sent under a COC to ACZ Labs, Steamboat Springs, CO. Temperatures on receipt were all in control.

SDG L89982 3rd Quarter- Clarification: Per the GCC project manager, "the sample called "METHOD BLANK" on the COC associated with SDG L89982 is essentially a field blank with DI water and a spare well pump. It is a requirement begun in 4th quarter 2023 to have one of these per quarterly sample event. The validator recommends that this field blank be called something else to avoid confusion with laboratory method blanks.

III. CALIBRATION AND STANDARDIZATION

1. Initial calibration, mass calibration, and resolution checks for both low and high mass isotopes were within 0.1 atomic mass unit (amu) of the true value. (*)

Yes X No _____

All requisite instrument tuning or performance measures were done according to the method requirements. (*).

US EPA Tune Check Sample reports were provided in the raw data and reports indicated the tunes passed in all cases.

2. Mass calibration and resolution checks for both low and high mass isotopes produced a peak width of approximately 0.6 to 0.9 amu at 10% peak height. (*)

Yes X No _____

3. Instrument Stability

A tuning solution was analyzed a minimum of four times, and the relative standard deviation (RSD) of absolute signals for all analytes was less than 5%. (*)

Yes X No _____

B. Instrument Performance and Calibration Standards

1. The Initial Calibration Verification (ICV) standard was within the required control limits of ± 10% of the established value for all analytes. (80 – 120% for mercury, 85 – 115% for Se species)

Yes X No _____

2. The Continuing Calibration Verification (CCV) standards were analyzed at the required frequency following every 10 analyses.

Yes X No _____

Sequencing was performed to verify that the frequencies were met for client samples and for proper application of the qualifiers.

3. The CCV standard percent recovery results were within the required control limits of 90 – 110% (80 – 120 % for mercury, 75 – 125% for Se species)

Yes X No _____

All CCVs were within criteria.

4. The correlation coefficients met the ≥ 0.995 criterion, as applicable to the method for mercury.

Yes X No _____

IV. CONTRACT REQUIRED DETECTION LIMIT (CRDL) STANDARDS

1. The 2x CRDL standards were analyzed for metals as required in the QAPP.

Yes X No _____ N/A _____
A CRDL check is not required for Method 200.8. However, the laboratory initial calibration run each day has a low-level standard that is very near the reporting limit. This meets method requirements. The 200.7 method does include an RL Check standard that meets criteria.

2. The 2x CRDL standards were within the required control limits of 70 – 130% (ICP: 50 – 150% for Lead, Antimony, and Thallium; ICPMS: 50 – 150% for Cobalt, Manganese, and Zinc).

Yes X No _____
All CRDLs were within criteria.

V. INTERFERENCES

Isobaric Elemental and Molecular Interferences (* for ICP-MS)
The isotope selected was free of isobaric elemental and elemental interferences as measured by the Interference Check Sample Solutions A and AB (ICSA/ICSAB) for ICP-AES and ICP-MS.

Yes X No _____
Data are only qualified if the interfering analyte is present in the sample and at levels near the high end of the linear range of the instrument. For Method 200.7, the recovery of the spectral interference check standard (SIC) is reported in the QC as a recovery for each element analyzed. All are in control. Method 200.8 does not specify the use of interference check standards. The laboratory has used collision deactivation and accepted reagent gas technology to minimize interference for ICP/MS.

VI. LABORATORY REAGENT BLANK (LRB) OR PREPARATION BLANK

A. Blanks were prepared and analyzed at the required frequency of at least one per each set of samples.

Yes X No _____
The ICB is used as the method blank for metals. This is acceptable since no digestion was performed on the samples prior to analysis.

B. All analytes in the blank were less than the MDL.

Yes _____ No X
Analytes reported as contaminants in the Preparation Blank are qualified with the DSA qualifier "UMB#," where # is the value of the associated blank. Only detected data less than 10x the blank for metals or 5x the blank for other analyses are qualified. Such data are fully usable as non-detected values at the reported concentration or elevated reporting limit. The alkalinity method blank has low detections in all SDGS.

In SDG L89982, the METHOD BLANK sample (a field blank) has a detection very similar to the associated method blank levels and is qualified as UMB3.1, indicating that it should be regarded as a non-detect. In all other samples, the alkalinity results are greater than 5 times the laboratory preparation blank and no qualifiers are required.

CLIENTID	LABID	ANALYTE	RESULT	QUAL	UNITS	MDL	PQL	DSA	EPA
METHOD BLANK	L89982-07	Total Alkalinity	8.1	B	mg/L	2	20	UMB3.1	UB
METHOD BLANK	L89982-07	Bicarbonate as CaCO3	8.1	B	mg/L	2	20	UMB3.1	UB

No other analytes require qualification for preparation blank contamination. Note that that in metals analysis, a formal preparation blank is only used for mercury. The other metals are direct injection of sample and

preparation is not performed ICBs and CCBs serve the same function. This is acceptable per method.

C. The source of contamination was corrected, and the samples were reanalyzed.

Yes _____ No _____ N/A __X__

VII. CALIBRATION BLANKS

The highest blank associated with any particular analyte is used for the qualification process and is the value entered after the DSA "B" blank-qualifier descriptor.

A. Calibration Blanks were prepared and analyzed at the required frequency after each set of 10 samples as required by the method.

Yes __X__ No _____
Sequencing was required to verify association with client samples.

B. The Calibration Blank results were within the required control limits or did not require data qualification.

Yes _____ No __X__ N/A _____
Analytes reported as contaminants in the Calibration Blanks are qualified with the DSA qualifier "UCB#," where # is the value of the blank. Such data are fully usable as non-detected values at the reported concentration or elevated reporting limit. Only detected data less than 10 × blank for metals and 5 × blank for other analyse are qualified.

SDG L89982, 3rd Quarter - For metals analysis, ICBs and/or CCBs have some detections cadmium, cobalt, lead, selenium, sodium, and zinc. Qualifiers added are shown in the table below.

CLIENTID	LABID	ANALYTE	RESULT	QUAL	UNITS	MDL	PQL	DSA	EPA
METHOD BLANK	L89982-07	Cadmium, dissolved	0.000055	B	mg/L	0.00005	0.00025	UCB0.000067	UB
METHOD BLANK	L89982-07	Cobalt, dissolved	0.000059	B	mg/L	0.00005	0.00025	UCB0.000066	UB
METHOD BLANK	L89982-07	Lead, dissolved	0.00010	B	mg/L	0.0001	0.0005	UCB0.00013	UB

C. Field, decon rinse or other Field Blanks are contained and identified in the package.

Yes __X__ No _____ N/A _____
The METHOD BLANK field sample is a field blank. The results for the field blank are used to evaluate associated samples (those taken on the same day) after qualification of the field blank for associated method blank contamination.

D. The reported results for the Field Blanks are less than the CRDL or less than the MDL, whichever is lower.

Yes _____ No __X__ N/A _____
SDG L89982, 3rd Quarter - The METHOD BLANK sample had detections of cadmium, cobalt, lead, alkalinity, and sodium. All were detected at levels below the reporting limit. Cadmium, cobalt, lead and alkalinity were qualified due to CCB or method blank contamination. The other analytes in the METHOD BLANK sample are too low relative to the samples taken on the same day to be qualified for the field blank results. No qualifiers are added due to field blank contamination.

VIII. INTERNAL STANDARD RESPONSES (*)

A. A minimum of three internal standards were present in all standards and blanks at identical levels.

Yes X No _____

B. The absolute response of each internal standard (IS) was within the required EPA control limits of 60 – 125%.

Yes X No _____
For the analytes reported.

C. Dilutions were performed as required by the method to minimize errors if the internal standard analyte is naturally present in a sample.

Yes _____ No _____ N/A X

D. If not, the appropriate test procedures were performed, and the required corrections made.

Yes _____ No _____ N/A X

IX. MATRIX SPIKES

A. Matrix Spike and Matrix Spike Duplicate (MS/MSD) samples were prepared and analyzed at one per every 20 or fewer samples for each matrix and each sampling event per day as required.

Yes X No _____
Matrix spikes, duplicates, and matrix spike duplicates were present (note that for most metals on this project these are post-spikes since analysis is by direct injection with no separate preparation step). For wet chemistry, a matrix spike and a matrix duplicate are analyzed. The project manager will determine if the project frequency is met for these methods. Matrix spikes associated with this set of data are shown in the table below. It is recommended that the client collect Representative samples for each method and designate them to the laboratory to be used for the MS/MSDs. As these samples are collected quarterly, only 1 QC sample per method would be required per year.

Spiked Sample -L89810	**Methods**
MW-18	EPA 200.8
MW-10	245.1 (mercury)
MW-2B	245.1 (mercury), SM4500Cl-E (Chloride), SM4500F-C (Fluoride)
Spiked Sample - L89854	
MW-19	EPA 200.7
MW-8	245.1 (mercury)
MW-20	SM4500F-C (Fluoride)
Spiked Sample - L89982	
MW-22	EPA 200.7, SM4500F-C (Fluoride)
MW-14	245.1 (mercury)
MW-23	M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen)
METHOD BLANK (field blank)	SM4500Cl-E (Chloride) – not evaluated

B. The MS/MSD percent recoveries were within the required control limits of 75 – 125%.

Yes X No _____ N/A _____

When matrix spikes are present, associated data are qualified with the DSA qualifier JMS#, where # is the value of the %R for the associated MS or MSD. Data may be biased high or low proportional to the spike recovery. The laboratory 'flags' data as M1 whether they are > 4x spike or within the qualifying limits. The laboratory flags are not recommended for use in evaluating the data as MS/MSD recoveries are not used for qualification of data if the result in the parent sample is > 4x the spike. Non-detected data are not qualified for high spikes. Only those MS/MSDs with parent samples in these projects are considered.

For some methods, such as Method 300.0 and Method 353.2, the laboratory uses a recovery window of 90-110%. Results are only qualified if the recoveries are outside the window specified above.

C. A Post Digestion Spike was prepared and analyzed if required.

Yes _____ No _____ N/A X

Not required in this case.

D. The MS/MSD samples were client samples.

Yes X No _____

Except for chloride on METHOD BLANK in SDG - L89982.
MS/MSD analyses were also performed on client samples from other SDGs but are not pertinent for qualification.

X. MATRIX DUPLICATE

A. Matrix Duplicate samples were prepared and analyzed per every 20 samples for each matrix.

Yes X No _____

Lab duplicates are present for Nitrate, nitrite, chloride, alkalinity, TDS, and sulfate. Some of these are associated with other SDGs and are not evaluated here. Matrix duplicates and MS/MSD RPDS are in control.

Parent Sample SDG **L89810**	Methods
MW-10	M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen), SM2540C (total dissolved solids);
Parent Sample SDG **L89982**	
MW-3B	M353.2 (nitrite as nitrogen, nitrite as nitrogen)

B. The MS/MSD or MD relative percent difference (RPD) values were within the required control limit of ≤ 20 RPD for water samples or ≤ 35% RPD for soil samples. If either of the MD results is less than 5x RL, the RPD is not used. In that case the difference between the results is evaluated and the QC limit is the difference between the original and the duplicate results (± 1x RL for water samples or ± 2x RL for soil samples). If the parent sample result is greater than 4 x the spike concentration, the MS/MSD is not evaluated. Only detected results are qualified for MS/MSD RPD outliers. Only those MS/MSDs with parent samples in these projects are considered.

Yes X No _____

Data are qualified with the DSA qualifier JD#, where # is the value of the RPD for the associated MD or MS/MSD analyses, when there are outliers. In this case there are no qualifiers.

XI. LABORATORY CONTROL SAMPLE

A. Laboratory Control Samples (LCS) were prepared and analyzed per every 20 samples for each matrix.

Yes X No _____

B. The LCS recoveries were within the required control limits of 80 – 120% for metals and for wet chemistry analyses 85 – 115% .

Yes X No _____
All LCS analyses were within criteria.

XII. FIELD QC

A. Field QC samples were identified.

Yes X No _____

SDG L89982, 3rd Quarter -Sample MW-2B is a blind duplicate of sample MW-6.
Sample MW-3B is a blind duplicate of MW-21.

B. Field duplicates were within the guidance limit of < 30% RPD for water samples or < 50% RPD for soil samples. If values are less than 5x RL, the water limit is ± 1x RL or the soil limit is ± 2x RL.

Yes X No _____ N/A _____

XIII. SERIAL DILUTION

A. Serial Dilutions were analyzed for every 20 samples if the analyte concentrations were greater than 50x IDL.

Yes X No _____ N/A _____
Analyte concentrations are too low to require serial dilutions.

B. The percent difference (% D) criteria of ± 10% were met.

Yes _____ No _____ N/A X
When outliers are present, data are qualified with the DSA qualifier JE#, where # is the %D. Data could be biased, usually high, due to non-linear matrix or chemical effects.

XIV. CALCULATIONS

A. Data calculations were checked when required, and significant figures were correctly reported.

Yes X No _____
Over 25% of the data were checked from the raw data to the EDD values for each method and each SDG.

B. Appropriate dilution factors were applied to the calculated sample concentrations.

Yes X No _____

C. Data were acceptable for the total versus dissolved and the cation/ anion balance.
Yes _X__ No ___NA_____
Total metals were not requested, so the total vs dissolved check cannot be performed. The cation-anion balance and calculated TDS are performed and are in control. These parameters are not evaluated for the METHOD BLANK field blank, since the levels of cations, anions, and TDS are too low to give meaningful comparisons.

XV. OVERALL ASSESSMENT OF THE CASE

The laboratory has complied with the requested methods and the data is considered fully useable for project purposes with consideration of the following qualifications or comments.

Data were submitted for EPA 200.7 (16 metals by ICP, dissolved), EPA 200.8 (4 metals by ICPMS, dissolved), EPA 245.1 (mercury, dissolved), SM4500F-C (Fluoride), M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen); SM2540C (total dissolved solids); D516-02/-07/-11 -Sulfate by turbidimetry; SM4500Cl-E (Chloride), SM 2320 B-2011 (Alkalinity). Note that for these SDGs, pH was not requested.

The data were validated at EPA Level III (EPA Stage 2B) with a minimum of 10% validated as EPA raw data review).

The laboratory has reported detections to the MDL and has flagged results between the MDL and the PQL with a "B". This is noted because many laboratories use "J" instead of "B" for this purpose, so the meaning of this flag needs to be kept in mind when reviewing the data. The definition of lab flags is provided in the report in the Inorganic Reference section.

Chain of Custody and Sample Preservation

All sample analyses were sent under a COC to ACZ Labs, Steamboat Springs, CO. Temperatures on receipt were all in control.

SDG L89982, 3rd Quarter -Clarification: Per the GCC project manager, "the sample called "METHOD BLANK" on the COC associated with SDG L89982 is essentially a field blank with DI water and a spare well pump. It is a requirement begun in 4th quarter 2023 to have one of these per quarterly sample event. The validator recommends that this field blank be called something else to avoid confusion with laboratory method blanks.

Holding Times

SDG L89854 – 3rd Quarter -The method holding times were met for all analyses except for one TDS sample. Results reported by the lab outside of hold are qualified as JH#, where # is the number of days since sampling. An outlier that is greater than 4x the hold time is rejected. Qualified results not rejected should be considered as estimates due to time and temperature changes in the samples. In this case, the holding time was missed because the laboratory had to dilute the sample and reprepare it to meet method criteria.

Method Blanks

The alkalinity method blank has low detections in all SDGS.
In SDG L89982, the METHOD BLANK sample (a field blank) has a detection very similar to the associated method blank levels and is qualified as UMB3.1, indicating that it should be regarded as a non-detect. In all other samples, the alkalinity results are greater than 5 times the laboratory preparation blank and no qualifiers are required.

No other analytes require qualification for preparation blank contamination. Note that that in metals analysis, a formal preparation blank is only used for mercury. The other metals are direct injection of sample and preparation is not performed ICBs and CCBs serve the same function. This is acceptable per method.

Initial and Continuing Calibration Blanks

Analytes reported as contaminants in the Calibration Blanks are qualified with the DSA qualifier "UCB#," where # is the value of the blank. Such data are fully usable as non-detected values at the reported concentration or elevated reporting limit. Only detected data less than 10 × blank for metals and 5 × blank for other analyse are qualified.

SDG L89982, 3rd Quarter -For metals analysis, ICBs and/or CCBs have some detections cadmium, cobalt, lead, selenium, sodium, and zinc. Qualifiers added are shown in the table within the body of this report.

Field Blanks

The METHOD BLANK field sample is a field blank. The results for the field blank are used to evaluate

associated samples (those taken on the same day) after qualification of the field blank for associated method blank contamination.

SDG L89982, 3rd Quarter -The METHOD BLANK sample had detections of cadmium, cobalt, lead, alkalinity, and sodium. All were detected at levels below the reporting limit. Cadmium, cobalt, lead and alkalinity were qualified due to CCB or method blank contamination. The other analytes in the METHOD BLANK sample are too low relative to the samples taken on the same day to be qualified for the field blank results. No qualifiers are added due to field blank contamination.

Matrix Spikes, Matrix Spike Duplicates, and Matrix Duplicates

Matrix spikes, duplicates, and matrix spike duplicates were present (note that for most metals on this project these are post-spikes since analysis is by direct injection with no separate preparation step). For wet chemistry, a matrix spike and a matrix duplicate are analyzed. The project manager will determine if the project frequency is met for these methods. Matrix spikes associated with this set of data are shown in the table below. It is recommended that the client collect Representative samples for each method and designate them to the laboratory to be used for the MS/MSDs. As these samples are collected quarterly, only 1 QC sample per method would be required per year.

Matrix Spikes:

Spiked Sample -L89810	**Methods**
MW-18	EPA 200.8
MW-10	245.1 (mercury)
MW-2B	245.1 (mercury), SM4500Cl-E (Chloride), SM4500F-C (Fluoride)
Spiked Sample - L89854	
MW-19	EPA 200.7
MW-8	245.1 (mercury)
MW-20	SM4500F-C (Fluoride)
Spiked Sample - L89982	
MW-22	EPA 200.7, SM4500F-C (Fluoride)
MW-14	245.1 (mercury)
MW-23	M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen)
METHOD BLANK (field blank)	SM4500Cl-E (Chloride) – not evaluated

MS/MSDs met recovery criteria.

Matrix Duplicates:

Parent Sample SDG **L89810**	Methods
MW-10	M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen), SM2540C (total dissolved solids);
Parent Sample SDG **L89982**	
MW-3B	M353.2 (nitrite as nitrogen, nitrite as nitrogen)

Matrix duplicates met RPD criteria.

Field QC

SDG L89982, 3rd Quarter -Sample MW-2B is a blind duplicate of sample MW-6. Sample MW-3B is a blind duplicate of MW-21.

Both field duplicates meet criteria and no qualifiers are required.

Cation-Anion Balance and Calculated TDS

Total metals were not requested, so the total vs dissolved check cannot be performed. The cation-anion balance and calculated TDS are performed and are in control. These parameters are not evaluated for the METHOD BLANK field blank, since the levels of cations, anions, and TDS are too low to give meaningful comparisons.

TABLE OF QUALIFIED DATA

CLIENTID	LABID	ANALYTE	RESULT	Lab Flag	UNITS	MDL	PQL	DSA	EPA
METHOD BLANK	L89982-07	Total Alkalinity	8.1	B	mg/L	2	20	UMB3.1	UB
METHOD BLANK	L89982-07	Bicarbonate as CaCO3	8.1	B	mg/L	2	20	UMB3.1	UB
METHOD BLANK	L89982-07	Cadmium, dissolved	0.000055	B	mg/L	0.00005	0.00025	UCB0.000067	UB
METHOD BLANK	L89982-07	Cobalt, dissolved	0.000059	B	mg/L	0.00005	0.00025	UCB0.000066	UB
METHOD BLANK	L89982-07	Lead, dissolved	0.00010	B	mg/L	0.0001	0.0005	UCB0.00013	UB
MW-7	L89854-01	Residue, Filterable (TDS) @180C	4560	H	mg/L	40	80	JH4	J

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382010653	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 2:20:33 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-6
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.52
Static Depth to Water (ft)	32.12
Well Total Depth (ft below top of casing)	56.4
Depth to Water below ground Surface (ft)	29.60
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Cloudy
Air Temperature (°F)	85
Date	Aug 26, 2024
Time	3:14:00 PM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Aug 26, 2024 3:04:00 PM MDT
Date/Time #1	Aug 26, 2024 3:08:00 PM MDT
Flow Rate (gpm) #1	0.07
Calculated Purge Volume (gal) #1	0.28
Sample Temperature (°C)	18.88
Specific Conductivity (µS/cm)	5163.99
pH (S.U.)	6.95

Oxygen Reduction Potential (mV)	805.18
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	1.61

Micro-Purge Stabilization Parameters #2

Date/Time #2	Aug 26, 2024 3:11:00 PM MDT
Flow Rate (gpm) #2	0.07
Sample Temperature (°C)	16.99
Specific Conductivity (µS/cm)	5163.47
pH (S.U.)	6.94
Oxygen Reduction Potential (mV)	920.03
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	1.09

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Aug 26, 2024 3:14:00 PM MDT
Flow Rate (gpm) #3	0.07
Sample Temperature (°C)	16.93
Specific Conductivity (µS/cm)	5076.77
pH (S.U.)	6.92
Oxygen Reduction Potential (mV)	970.73
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.84

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	32.51
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.07

Total Purged (gal)	1.00
Are you sure? This purge value seems out of the expected purge requirement.	Yes
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 2

Details

Method of Sample Collection	MW-6 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-6
Sample Date/Time	Aug 26, 2024 3:14:00 PM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

LAB SAMPLE 2 OF 2

Details

Method of Sample Collection	MW-6 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-2B
Sample Date/Time	Aug 26, 2024 12:00:00 PM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Duplicate

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC

Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382012719	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 2:31:26 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-7
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.66
Static Depth to Water (ft)	32.12
Well Total Depth (ft below top of casing)	56.1
Depth to Water below ground Surface (ft)	29.46
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	74
Date	Aug 27, 2024
Time	9:36:00 AM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Aug 27, 2024 9:26:00 AM MDT
Date/Time #1	Aug 27, 2024 9:30:00 AM MDT
Flow Rate (gpm) #1	0.05
Calculated Purge Volume (gal) #1	0.20
Sample Temperature (°C)	17.35
Specific Conductivity (µS/cm)	4609.67
pH (S.U.)	7.24

Oxygen Reduction Potential (mV)	874.26
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	1.11

Micro-Purge Stabilization Parameters #2

Date/Time #2	Aug 27, 2024 9:33:00 AM MDT
Flow Rate (gpm) #2	0.05
Sample Temperature (°C)	16.99
Specific Conductivity (µS/cm)	4605.24
pH (S.U.)	7.21
Oxygen Reduction Potential (mV)	966.62
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.72

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Aug 27, 2024 9:36:00 AM MDT
Flow Rate (gpm) #3	0.05
Sample Temperature (°C)	17.08
Specific Conductivity (µS/cm)	4557.61
pH (S.U.)	7.20
Oxygen Reduction Potential (mV)	1014.64
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.71

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	31.91
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.05

Total Purged (gal)	1.00
Are you sure? This purge value seems out of the expected purge requirement.	Yes
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-7 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-7
Sample Date/Time	Aug 27, 2024 9:36:00 AM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382012795	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 2:40:28 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-8
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.16
Static Depth to Water (ft)	31.21
Well Total Depth (ft below top of casing)	65.65
Depth to Water below ground Surface (ft)	29.05
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	74
Date	Aug 27, 2024
Time	10:05:00 AM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Aug 27, 2024 9:53:00 AM MDT
Date/Time #1	Aug 27, 2024 9:59:00 AM MDT
Flow Rate (gpm) #1	0.06
Calculated Purge Volume (gal) #1	0.36
Sample Temperature (°C)	17.06
Specific Conductivity (µS/cm)	4795.13
pH (S.U.)	7.22

Oxygen Reduction Potential (mV)	853.33
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.91

Micro-Purge Stabilization Parameters #2

Date/Time #2	Aug 27, 2024 10:02:00 AM MDT
Flow Rate (gpm) #2	0.06
Sample Temperature (°C)	16.73
Specific Conductivity (µS/cm)	4833.23
pH (S.U.)	7.21
Oxygen Reduction Potential (mV)	518.78
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.67

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Aug 27, 2024 10:05:00 AM MDT
Flow Rate (gpm) #3	0.06
Sample Temperature (°C)	17.28
Specific Conductivity (µS/cm)	4833.69
pH (S.U.)	7.19
Oxygen Reduction Potential (mV)	507.07
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.58

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	38.05
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.06

Total Purged (gal)	0.80
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-8 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-8
Sample Date/Time	Aug 27, 2024 10:05:00 AM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
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Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382001747	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Sep 20, 2024 10:27:46 AM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-9
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.08
Static Depth to Water (ft)	26.98
Well Total Depth (ft below top of casing)	42.23
Depth to Water below ground Surface (ft)	24.90
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Cloudy
Air Temperature (°F)	79
Date	Aug 26, 2024
Time	12:17:00 PM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Aug 26, 2024 12:07:00 PM MDT
Date/Time #1	Aug 26, 2024 12:11:00 PM MDT
Flow Rate (gpm) #1	0.08
Calculated Purge Volume (gal) #1	0.32
Sample Temperature (°C)	18.22
Specific Conductivity (µS/cm)	5051.97
pH (S.U.)	6.86

Oxygen Reduction Potential (mV)	430.43
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect conditions not observed before but I think the parameter value is accurate
Dissolved Oxygen (mg/L)	0.86

Micro-Purge Stabilization Parameters #2

Date/Time #2	Aug 26, 2024 12:14:00 PM MDT
Flow Rate (gpm) #2	0.08
Sample Temperature (°C)	17.44
Specific Conductivity (µS/cm)	5151.29
pH (S.U.)	6.85
Oxygen Reduction Potential (mV)	483.78
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect conditions not observed before but I think the parameter value is accurate
Dissolved Oxygen (mg/L)	0.53

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Aug 26, 2024 12:17:00 PM MDT
Flow Rate (gpm) #3	0.08
Sample Temperature (°C)	18.07
Specific Conductivity (µS/cm)	5147.01
pH (S.U.)	6.83
Oxygen Reduction Potential (mV)	519.48
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect conditions not observed before but I think the parameter value is accurate
Dissolved Oxygen (mg/L)	0.49

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	28.80
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.08

Total Purged (gal)	0.70
Are you sure? This purge value seems out of the expected purge requirement.	Yes
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Amy Rodrigues – GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-9 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-9
Sample Date/Time	Aug 26, 2024 12:17:00 PM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
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Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382006627	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 1:40:31 PM MDT**

SITE INFORMATION

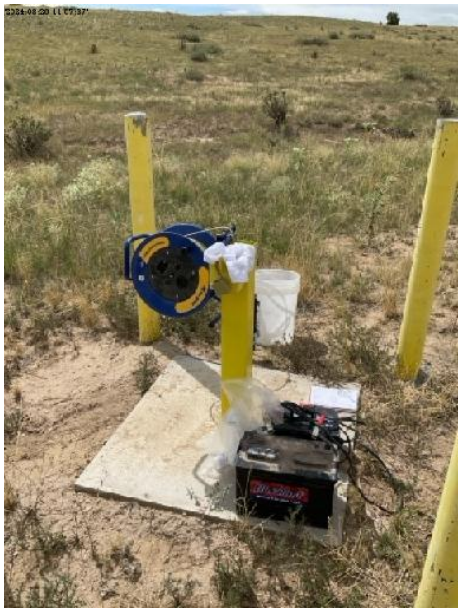
Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-10
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.24
Static Depth to Water (ft)	26.42
Well Total Depth (ft below top of casing)	82.55
Depth to Water below ground Surface (ft)	24.18
Well Diameter (In)	2

Misc

Site Photo



Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Cloudy
Air Temperature (°F)	79
Date	Aug 26, 2024
Time	11:48:00 AM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Aug 26, 2024 11:34:00 AM MDT
Date/Time #1	Aug 26, 2024 11:42:00 AM MDT
Flow Rate (gpm) #1	0.07
Calculated Purge Volume (gal) #1	0.56
Sample Temperature (°C)	18.27
Specific Conductivity (µS/cm)	4149.83
pH (S.U.)	7.83

Oxygen Reduction Potential (mV)	333.70
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	7.62

Micro-Purge Stabilization Parameters #2

Date/Time #2	Aug 26, 2024 11:45:00 AM MDT
Flow Rate (gpm) #2	0.07
Sample Temperature (°C)	18.56
Specific Conductivity (µS/cm)	4015.96
pH (S.U.)	7.83
Oxygen Reduction Potential (mV)	381.01
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	7.93

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Aug 26, 2024 11:48:00 AM MDT
Flow Rate (gpm) #3	0.07
Sample Temperature (°C)	19.35
Specific Conductivity (µS/cm)	1661.00
pH (S.U.)	7.79
Oxygen Reduction Potential (mV)	428.93
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	7.27

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	33.70
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.07

Total Purged (gal)	0.75
Geographic Sample Location	3372 Lime Rd, North Avondale, CO 81022, USA latitude: 38.12936215622722 altitude: 1535.074 longitude: -104.6064156524465 [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-10 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-10
Sample Date/Time	Aug 26, 2024 11:48:00 AM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
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Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382028090	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 2:49:05 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-11
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.18
Static Depth to Water (ft)	54.84
Well Total Depth (ft below top of casing)	72.68
Depth to Water below ground Surface (ft)	52.66
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	78
Date	Aug 27, 2024
Time	11:13:00 AM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Aug 27, 2024 10:29:00 AM MDT
Date/Time #1	Aug 27, 2024 10:35:00 AM MDT
Flow Rate (gpm) #1	0.07
Calculated Purge Volume (gal) #1	0.42
Sample Temperature (°C)	17.95
Specific Conductivity (µS/cm)	2763.39
pH (S.U.)	7.38

Oxygen Reduction Potential (mV)	88.81
Dissolved Oxygen (mg/L)	7.50

Micro-Purge Stabilization Parameters #2

Date/Time #2	Aug 27, 2024 10:38:00 AM MDT
Flow Rate (gpm) #2	0.07
Sample Temperature (°C)	18.15
Specific Conductivity (µS/cm)	2794.22
pH (S.U.)	7.37
Oxygen Reduction Potential (mV)	80.67
Dissolved Oxygen (mg/L)	7.44

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Aug 27, 2024 10:41:00 AM MDT
Flow Rate (gpm) #3	0.07
Sample Temperature (°C)	18.43
Specific Conductivity (µS/cm)	2729.65
pH (S.U.)	7.37
Oxygen Reduction Potential (mV)	79.51
Dissolved Oxygen (mg/L)	7.42

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	56.35
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.07
Total Purged (gal)	0.80
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer

Sampler's Signature

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-11 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-11
Sample Date/Time	Aug 27, 2024 10:41:00 AM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382028331	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 2:59:21 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-12
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.29
Static Depth to Water (ft)	58.70
Well Total Depth (ft below top of casing)	88.8
Depth to Water below ground Surface (ft)	56.41
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	78
Date	Aug 27, 2024
Time	11:13:00 AM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Aug 27, 2024 10:59:00 AM MDT
Date/Time #1	Aug 27, 2024 11:07:00 AM MDT
Flow Rate (gpm) #1	0.06
Calculated Purge Volume (gal) #1	0.48
Sample Temperature (°C)	18.84
Specific Conductivity (µS/cm)	4365.43
pH (S.U.)	7.75

Oxygen Reduction Potential (mV)	547.65
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	9.00

Micro-Purge Stabilization Parameters #2

Date/Time #2	Aug 27, 2024 11:10:00 AM MDT
Flow Rate (gpm) #2	0.06
Sample Temperature (°C)	18.99
Specific Conductivity (µS/cm)	4306.62
pH (S.U.)	7.75
Oxygen Reduction Potential (mV)	597.26
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	8.96

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Aug 27, 2024 11:13:00 AM MDT
Flow Rate (gpm) #3	0.06
Sample Temperature (°C)	19.04
Specific Conductivity (µS/cm)	4271.02
pH (S.U.)	7.75
Oxygen Reduction Potential (mV)	739.06
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	8.99

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	64.76
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.06

Total Purged (gal)	0.90
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-12 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-12
Sample Date/Time	Aug 27, 2024 11:13:00 AM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382032717	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 3:46:03 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-13
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.19
Static Depth to Water (ft)	117.50
Well Total Depth (ft below top of casing)	177.88
Depth to Water below ground Surface (ft)	115.31
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	70
Date	Sep 4, 2024
Time	10:30:00 AM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Sep 4, 2024 10:08:00 AM MDT
Date/Time #1	Sep 4, 2024 10:24:00 AM MDT
Flow Rate (gpm) #1	0.05
Calculated Purge Volume (gal) #1	0.80
Sample Temperature (°C)	17.47
Specific Conductivity (µS/cm)	4134.44
pH (S.U.)	8.02

Oxygen Reduction Potential (mV)	525.71
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.77

Micro-Purge Stabilization Parameters #2

Date/Time #2	Sep 4, 2024 10:27:00 AM MDT
Flow Rate (gpm) #2	0.05
Sample Temperature (°C)	17.36
Specific Conductivity (µS/cm)	4113.38
pH (S.U.)	8.03
Oxygen Reduction Potential (mV)	534.77
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.64

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Sep 4, 2024 10:30:00 AM MDT
Flow Rate (gpm) #3	0.05
Sample Temperature (°C)	17.54
Specific Conductivity (µS/cm)	4078.81
pH (S.U.)	8.04
Oxygen Reduction Potential (mV)	531.82
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.54

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	117.09
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.05

Total Purged (gal)	1.25
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-13 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-13
Sample Date/Time	Sep 4, 2024 10:30:00 AM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382034069	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 3:20:02 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-14
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.11
Static Depth to Water (ft)	96.10
Well Total Depth (ft below top of casing)	207.83
Depth to Water below ground Surface (ft)	93.99
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	80
Date	Sep 4, 2024
Time	11:32:00 AM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Sep 4, 2024 11:08:00 AM MDT
Date/Time #1	Sep 4, 2024 11:26:00 AM MDT
Flow Rate (gpm) #1	0.06
Calculated Purge Volume (gal) #1	1.08
Sample Temperature (°C)	17.90
Specific Conductivity (µS/cm)	6292.73
pH (S.U.)	7.70

Oxygen Reduction Potential (mV)	522.03
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	2.62

Micro-Purge Stabilization Parameters #2

Date/Time #2	Sep 4, 2024 11:29:00 AM MDT
Flow Rate (gpm) #2	0.06
Sample Temperature (°C)	18.13
Specific Conductivity (µS/cm)	6219.77
pH (S.U.)	7.70
Oxygen Reduction Potential (mV)	516.86
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	2.37

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Sep 4, 2024 11:32:00 AM MDT
Flow Rate (gpm) #3	0.06
Sample Temperature (°C)	18.78
Specific Conductivity (µS/cm)	6579.70
pH (S.U.)	7.69
Oxygen Reduction Potential (mV)	522.98
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	2.37

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	107.92
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.06

Total Purged (gal)	1.65
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-14 – Dedicated QED SS Well Wizard T1300 low-flow bladder pump
Lab Sample Name	MW-14
Sample Date/Time	Sep 4, 2024 11:32:00 AM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382001748	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Sep 20, 2024 10:08:45 AM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-15
Water present to measure/sample?	No
Is the water present within 0.25 feet of the well TD?	No
Dry Well	Yes

Misc

Site Photo

SAMPLING DETAILS

Weather	Cloudy
Air Temperature (°F)	83
Date	Aug 26, 2024
Time	1:17:00 PM MDT
Comments	Dry

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241004-1314032001-18382107070	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 4, 2024 9:05:21 AM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-16
Water present to measure/sample?	No
Is the water present within 0.25 feet of the well TD?	Yes
Dry Well	Yes

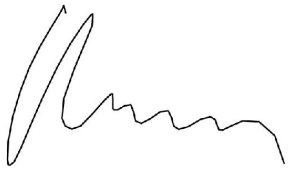
Misc

Site Photo

SAMPLING DETAILS

Weather	Cloudy
Air Temperature (°F)	83
Date	Aug 26, 2024
Time	1:30:00 PM MDT

Sampler

Sampler Name	Amy Rodrigues – GCC Pueblo Environmental Engineer
Sampler's Signature	

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382010069	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 1:54:16 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-17
Water present to measure/sample?	No
Is the water present within 0.25 feet of the well TD?	No
Dry Well	Yes

Misc

Site Photo

SAMPLING DETAILS

Weather	Cloudy
Air Temperature (°F)	82
Date	Aug 26, 2024
Time	1:06:00 PM MDT

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241004-1314032001-18382145043	**Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 4, 2024 1:51:57 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-18
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.87
Static Depth to Water (ft)	39.08
Well Total Depth (ft below top of casing)	55.74
Depth to Water below ground Surface (ft)	36.21
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Cloudy
Air Temperature (°F)	86
Date	Aug 26, 2024
Time	12:55:00 PM MDT
Comments	Slightly cloudy purge water

Micro-Purge Stabilization Parameters #1

Parameter Date/Time #1	Aug 26, 2024 12:49:00 PM MDT
Flow Rate (gpm) #1	0.13
Sample Temperature (°C)	19.31
Specific Conductivity (µS/cm)	5.78
Are you sure? This value seems very unlikely based on past data.	Yes

Specific Conductivity - Out of Range	Suspect general instrument malfunction
pH (S.U.)	6.56
Oxygen Reduction Potential (mV)	1400.00
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect general instrument malfunction
Dissolved Oxygen (mg/L)	8.01
Are you sure? This value seems very unlikely based on past data?	Yes
Dissolved Oxygen - Out of Range	Suspect general instrument malfunction

Micro-Purge Stabilization Parameters #2

Parameter Date/Time #2	Aug 26, 2024 12:52:00 PM MDT
Flow Rate (gpm) #2	0.13
Sample Temperature (°C)	19.71
Specific Conductivity (µS/cm)	1039.39
pH (S.U.)	7.78
Oxygen Reduction Potential (mV)	793.74
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect general instrument malfunction
Dissolved Oxygen (mg/L)	5.21
Are you sure? This value seems very unlikely based on past data?	Yes
Dissolved Oxygen - Out of Range	Suspect general instrument malfunction

Micro-Purge Stabilization Parameters #3 (FINAL)

Parameter Date/Time #3	Aug 26, 2024 12:55:00 PM MDT
Flow Rate (gpm) #3	0.13
Sample Temperature (°C)	16.93
Specific Conductivity (µS/cm)	1295.59
pH (S.U.)	7.72
Oxygen Reduction Potential (mV)	910.98
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect general instrument malfunction
Dissolved Oxygen (mg/L)	0.22

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	39.79
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.13
Total Purged (gal)	0.90
Geographic Sample Location	3372 Lime Rd, North Avondale, CO 81022, USA latitude: 38.12935375161537 altitude: 1535.1548 longitude: -104.60641999605316 [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-18 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-18
Sample Date/Time	Aug 26, 2024 12:55:00 PM MDT

Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid

Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241003-1314032001-18382028717	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 3, 2024 3:08:13 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-19
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.74
Static Depth to Water (ft)	14.54
Well Total Depth (ft below top of casing)	75.01
Depth to Water below ground Surface (ft)	11.80
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	82
Date	Aug 27, 2024
Time	11:49:00 AM MDT

Micro-Purge Stabilization Parameters #1

Purge Start Time	Aug 27, 2024 11:38:00 AM MDT
Date/Time #1	Aug 27, 2024 11:43:00 AM MDT
Flow Rate (gpm) #1	0.08
Calculated Purge Volume (gal) #1	0.40
Sample Temperature (°C)	19.56
Specific Conductivity (µS/cm)	1989.87
pH (S.U.)	8.13

Oxygen Reduction Potential (mV)	594.30
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	1.72

Micro-Purge Stabilization Parameters #2

Date/Time #2	Aug 27, 2024 11:46:00 AM MDT
Flow Rate (gpm) #2	0.08
Sample Temperature (°C)	19.21
Specific Conductivity (µS/cm)	2024.60
pH (S.U.)	8.13
Oxygen Reduction Potential (mV)	643.34
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	1.68

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Aug 27, 2024 11:49:00 AM MDT
Flow Rate (gpm) #3	0.08
Sample Temperature (°C)	17.94
Specific Conductivity (µS/cm)	2013.85
pH (S.U.)	8.14
Oxygen Reduction Potential (mV)	685.96
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	1.23

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	15.37
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.08

Total Purged (gal)	0.75
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-19 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-19
Sample Date/Time	Aug 27, 2024 11:49:00 AM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241004-1314032001-18382149383	**Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 4, 2024 2:03:56 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-20
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.75
Static Depth to Water (ft)	20.73
Well Total Depth (ft below top of casing)	97.4
Depth to Water below ground Surface (ft)	17.98
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	82
Date	Aug 27, 2024
Time	12:15:00 PM MDT

Micro-Purge Stabilization Parameters #1

Parameter Date/Time #1	Aug 27, 2024 12:09:00 PM MDT
Flow Rate (gpm) #1	0.13
Sample Temperature (°C)	17.46
Specific Conductivity (µS/cm)	3622.48
pH (S.U.)	8.08
Oxygen Reduction Potential (mV)	610.65

Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	6.86
Are you sure? This value seems very unlikely based on past data?	Yes
Dissolved Oxygen - Out of Range	Suspect general instrument malfunction

Micro-Purge Stabilization Parameters #2

Parameter Date/Time #2	Aug 27, 2024 12:12:00 PM MDT
Flow Rate (gpm) #2	0.13
Sample Temperature (°C)	18.59
Specific Conductivity (µS/cm)	1965.14
pH (S.U.)	8.05
Oxygen Reduction Potential (mV)	665.16
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect general instrument malfunction
Dissolved Oxygen (mg/L)	5.82
Are you sure? This value seems very unlikely based on past data?	Yes
Dissolved Oxygen - Out of Range	Suspect general instrument malfunction

Micro-Purge Stabilization Parameters #3 (FINAL)

Parameter Date/Time #3	Aug 27, 2024 12:15:00 PM MDT
Flow Rate (gpm) #3	0.13
Sample Temperature (°C)	19.71
Specific Conductivity (µS/cm)	1498.03
Are you sure? This value seems very unlikely based on past data.	Yes
Specific Conductivity - Out of Range	Suspect general instrument malfunction
pH (S.U.)	7.50
Oxygen Reduction Potential (mV)	594.13
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect general instrument malfunction
Dissolved Oxygen (mg/L)	4.74

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	29.57
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.13
Total Purged (gal)	1.30
Geographic Sample Location	3372 Lime Rd, North Avondale, CO 81022, USA latitude: 38.12936108313046 altitude: 1535.1904 longitude: -104.60639786880049 [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-20 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-20
Sample Date/Time	Aug 27, 2024 12:15:00 PM MDT

Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid

Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241004-1314032001-18382133334	**Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 4, 2024 1:00:25 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-21
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.6
Static Depth to Water (ft)	47.57
Well Total Depth (ft below top of casing)	124.88
Depth to Water below ground Surface (ft)	44.97
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	82
Date	Sep 4, 2024
Time	12:17:00 PM MDT
Comments	Purge water cloudy and light gray

Micro-Purge Stabilization Parameters #1

Parameter Date/Time #1	Sep 4, 2024 12:11:00 PM MDT
Flow Rate (gpm) #1	0.12
Sample Temperature (°C)	17.65
Specific Conductivity (µS/cm)	3542.57
pH (S.U.)	8.38
Oxygen Reduction Potential (mV)	561.47

Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	8.02
Are you sure? This value seems very unlikely based on past data?	Yes
Dissolved Oxygen - Out of Range	Suspect specific probe malfunction for this parameter

Micro-Purge Stabilization Parameters #2

Parameter Date/Time #2	Sep 4, 2024 12:14:00 PM MDT
Flow Rate (gpm) #2	0.12
Sample Temperature (°C)	17.81
Specific Conductivity (µS/cm)	3526.48
pH (S.U.)	8.39
Oxygen Reduction Potential (mV)	595.55
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	7.98
Are you sure? This value seems very unlikely based on past data?	Yes
Dissolved Oxygen - Out of Range	Suspect specific probe malfunction for this parameter

Micro-Purge Stabilization Parameters #3 (FINAL)

Parameter Date/Time #3	Sep 4, 2024 12:17:00 PM MDT
Flow Rate (gpm) #3	0.12
Sample Temperature (°C)	17.76
Specific Conductivity (µS/cm)	3504.80
pH (S.U.)	8.40
Oxygen Reduction Potential (mV)	623.38
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	7.94

Are you sure? This value seems very unlikely based on past data?	Yes
Dissolved Oxygen - Out of Range	Suspect specific probe malfunction for this parameter

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	48.12
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.12
Total Purged (gal)	1.30
Geographic Sample Location	3372 Lime Rd, North Avondale, CO 81022, USA latitude: 38.129358118909515 altitude: 1535.165 longitude: -104.60640561350466 [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 2

Details

Method of Sample Collection	MW-21 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-21
Sample Date/Time	Sep 4, 2024 12:17:00 PM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

LAB SAMPLE 2 OF 2

Details

Method of Sample Collection	MW-21 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-3B
Sample Date/Time	Sep 4, 2024 12:00:00 PM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Duplicate

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241004-1314032001-18382149824	**Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 4, 2024 2:13:51 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-22
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.6
Static Depth to Water (ft)	149.71
Well Total Depth (ft below top of casing)	155.15
Depth to Water below ground Surface (ft)	147.11
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	85
Date	Sep 4, 2024
Time	12:52:00 PM MDT
Comments	Well dry after sampling

Micro-Purge Stabilization Parameters #1

Parameter Date/Time #1	Sep 4, 2024 12:46:00 PM MDT
Flow Rate (gpm) #1	0.15
Sample Temperature (°C)	21.19
Are you sure? This value seems very unlikely based on past data.	Yes
Sample Temperature - Out of Range	Suspect general instrument malfunction

Specific Conductivity (µS/cm)	1646.44
Are you sure? This value seems very unlikely based on past data.	Yes
Specific Conductivity - Out of Range	Suspect general instrument malfunction
pH (S.U.)	8.38
Oxygen Reduction Potential (mV)	109.34
Dissolved Oxygen (mg/L)	4.49

Micro-Purge Stabilization Parameters #2

Parameter Date/Time #2	Sep 4, 2024 12:49:00 PM MDT
Flow Rate (gpm) #2	0.15
Sample Temperature (°C)	22.25
Are you sure? This value seems very unlikely based on past data.	Yes
Sample Temperature - Out of Range	Suspect general instrument malfunction
Specific Conductivity (µS/cm)	1646.44
Are you sure? This value seems very unlikely based on past data.	Yes
Specific Conductivity - Out of Range	Suspect general instrument malfunction
pH (S.U.)	8.42
Oxygen Reduction Potential (mV)	851.95
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect general instrument malfunction
Dissolved Oxygen (mg/L)	4.22

Micro-Purge Stabilization Parameters #3 (FINAL)

Parameter Date/Time #3	Sep 4, 2024 12:52:00 PM MDT
Flow Rate (gpm) #3	0.15
Sample Temperature (°C)	23.97
Are you sure? This value seems very unlikely based on past data.	Yes
Sample Temperature - Out of Range	Suspect general instrument malfunction
Specific Conductivity (µS/cm)	1646.44
Are you sure? This value seems very unlikely based on past data.	Yes
Specific Conductivity - Out of Range	Suspect general instrument malfunction
pH (S.U.)	8.39
Oxygen Reduction Potential (mV)	841.97

Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect general instrument malfunction
Dissolved Oxygen (mg/L)	4.03

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	156.45
Are you sure? As of March 1, 2022 this well is not this deep.	Yes
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.15
Total Purged (gal)	1.75
Geographic Sample Location	3372 Lime Rd, North Avondale, CO 81022, USA latitude: 38.12936108313046 altitude: 1535.1904 longitude: -104.60639786880049 [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-22 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-22
Sample Date/Time	Sep 4, 2024 12:52:00 PM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241004-1314032001-18382137457	**Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 4, 2024 1:29:04 PM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-23
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No
Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.8
Static Depth to Water (ft)	73.84
Well Total Depth (ft below top of casing)	80
Depth to Water below ground Surface (ft)	71.04
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	87
Date	Sep 4, 2024
Time	1:34:00 PM MDT

Micro-Purge Stabilization Parameters #1

Parameter Date/Time #1	Sep 4, 2024 1:28:00 PM MDT
Flow Rate (gpm) #1	0.11
Sample Temperature (°C)	17.19
Specific Conductivity (µS/cm)	1253.40
pH (S.U.)	8.01
Oxygen Reduction Potential (mV)	609.09

Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.46

Micro-Purge Stabilization Parameters #2

Parameter Date/Time #2	Sep 4, 2024 1:31:00 PM MDT
Flow Rate (gpm) #2	0.11
Sample Temperature (°C)	17.63
Specific Conductivity (µS/cm)	1290.36
pH (S.U.)	7.86
Oxygen Reduction Potential (mV)	713.35
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.11

Micro-Purge Stabilization Parameters #3 (FINAL)

Parameter Date/Time #3	Sep 4, 2024 1:34:00 PM MDT
Flow Rate (gpm) #3	0.11
Sample Temperature (°C)	19.18
Specific Conductivity (µS/cm)	1296.68
pH (S.U.)	7.85
Oxygen Reduction Potential (mV)	772.44
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	0.09

Purge and Sampling

Water level measured at sample time?	Depth to Water (ft TOC) measured at Sample Time
Depth to Water (ft TOC)	77.75
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.11
Total Purged (gal)	1.40

Geographic Sample Location	3372 Lime Rd, North Avondale, CO 81022, USA latitude: 38.12935375161537 altitude: 1535.1548 longitude: -104.60641999605316 [viewMap]
Sample(s) collected for laboratory analysis?	Yes

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

Sample Submittal Information

LAB SAMPLE 1 OF 1

Details

Method of Sample Collection	MW-23 – Dedicated Proactive Environmental SS Sample Champ XL 12-volt low-flow submersible pump
Lab Sample Name	MW-23
Sample Date/Time	Sep 4, 2024 1:34:00 PM MDT
Lab Suite	GW-Compliance
Number of Bottles/Containers	3
Lab Sample Type	Normal

Sample Handling

SAMPLE HANDLING 1 OF 3

Bottle Details

ACZ Labs Bottle Sticker	None
Bottle Volume (mL)	500
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	No
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, no filtration

SAMPLE HANDLING 2 OF 3

Bottle Details

ACZ Labs Bottle Sticker	White
Bottle Volume (mL)	250
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Raw/None
Analysis	Wet Chemistry - no preservative, field-filtered

SAMPLE HANDLING 3 OF 3

Bottle Details

ACZ Labs Bottle Sticker	Green PC
Bottle Volume (mL)	125
Bottle Composition	Poly
Bottle Quantity	1
Field-Filtered to 0.45 µm (Yes/No)	Yes
Preservative (Type)	Nitric Acid
Analysis	Metals (dissolved including ICPMS) - nitric preserved, field-filtered

Dev Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant
(719) 647-6800
3372 Lime Road
Pueblo, CO 81004
www.gcc.com

Reference Number:	Form Name:
GCC_RGPP-20241004-1314032001-18382107378	**Dev Wells - GCC Pueblo Compliance Water Sampling**
Submitter Name:	Date Sent on Device:
Amy Rodrigues | amy.rodrigues	**Oct 4, 2024 9:30:00 AM MDT**

SITE INFORMATION

Location

Project Site	GCC Rio Grande Pueblo Plant
Sample ID	MW-24
Water present to measure/sample?	Yes
Is the water present within 0.25 feet of the well TD?	No

Wellhead Stick-Up from Ground Level Reference Point to Depth to Water Level Reference Point (ft)	2.8
Static Depth to Water (ft)	111.56
Well Total Depth (ft below top of casing)	113
Depth to Water below ground Surface (ft)	108.76
Well Diameter (In)	2

Misc

Site Photo

Water Quality Meter

Water Quality Meter Make/Model/SN	In-Situ AquaTroll 400 SN 896017
Calibration Date/Time:	Aug 23, 2024 9:30:00 AM MDT
Calibration Parameters	Specific Conductivity (SC) pH Oxygen Reduction Potential (ORP) Dissolved Oxygen (DO or RDO)
AquaTroll calibration log generated?	Yes

SAMPLING DETAILS

Weather	Sunny
Air Temperature (°F)	87
Date	Sep 4, 2024
Time	2:09:00 PM MDT
Comments	Dark cloudy purge water

Micro-Purge Stabilization Parameters #1

Purge Start Time	Sep 4, 2024 1:50:00 PM MDT
Date/Time #1	Sep 4, 2024 2:03:00 PM MDT
Flow Rate (gpm) #1	0.04
Calculated Purge Volume (gal) #1	0.52
Sample Temperature (°C)	19.65
Specific Conductivity (µS/cm)	1605.71

pH (S.U.)	8.93
Oxygen Reduction Potential (mV)	747.34
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	5.28

Micro-Purge Stabilization Parameters #2

Date/Time #2	Sep 4, 2024 2:06:00 PM MDT
Flow Rate (gpm) #2	0.04
Sample Temperature (°C)	19.92
Specific Conductivity (µS/cm)	1622.20
pH (S.U.)	8.93
Oxygen Reduction Potential (mV)	755.84
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	5.20

Micro-Purge Stabilization Parameters #3 (FINAL)

Date/Time #3	Sep 4, 2024 2:09:00 PM MDT
Flow Rate (gpm) #3	0.04
Sample Temperature (°C)	20.58
Are you sure? This value seems very unlikely based on past data.	Yes
Sample Temperature - Out of Range	Suspect conditions not observed before but I think the parameter value is accurate
Specific Conductivity (µS/cm)	1633.91
pH (S.U.)	8.92
Oxygen Reduction Potential (mV)	754.37
Are you sure? This value seems very unlikely based on past data?	Yes
ORP - Out of Range	Suspect specific probe malfunction for this parameter
Dissolved Oxygen (mg/L)	4.84

Purge and Sampling

Water level measured at sample time?	Dry - no water level detected
Was flow rate measured?	Flow Rate was measured.
Static Flow Rate (gpm)	0.04
Total Purged (gal)	1.00
Geographic Sample Location	latitude: altitude: longitude: [viewMap]
Sample(s) collected for laboratory analysis?	No

Sampler

Sampler Name	Meghan Way - GCC Pueblo Environmental Engineer
Sampler's Signature	

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

September 16, 2024

Report to:
Amy Rodrigues
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004

cc: Landon Beck

Bill to:
Amy Rodrigues
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004

Project ID:
ACZ Project ID: L89810

Amy Rodrigues:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 27, 2024. This project has been assigned to ACZ's project number, L89810. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L89810. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 16, 2025. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

GCC Rio Grande
Project ID:
Sample ID: MW-10

ACZ Sample ID: ***L89810-01***
Date Sampled: *08/26/24 11:48*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	2	<0.14	U		mg/L	0.14	0.5	09/11/24 0:30	msp
Arsenic, dissolved	EPA 200.8	2	0.00072	B		mg/L	0.0004	0.002	09/03/24 15:34	aps
Beryllium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 0:30	msp
Boron, dissolved	EPA 200.7	2	1.27			mg/L	0.06	0.2	09/11/24 0:30	msp
Cadmium, dissolved	EPA 200.8	2	<0.0001	U		mg/L	0.0001	0.0005	09/03/24 15:34	aps
Calcium, dissolved	EPA 200.7	2	27.4			mg/L	0.2	1	09/11/24 0:30	msp
Chromium, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 0:30	msp
Cobalt, dissolved	EPA 200.8	2	<0.0001	U		mg/L	0.0001	0.0005	09/03/24 15:34	aps
Copper, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 0:30	msp
Iron, dissolved	EPA 200.7	2	0.218	B		mg/L	0.12	0.3	09/11/24 0:30	msp
Lead, dissolved	EPA 200.8	2	<0.0002	U		mg/L	0.0002	0.001	09/03/24 15:34	aps
Lithium, dissolved	EPA 200.7	2	0.219			mg/L	0.016	0.08	09/11/24 0:30	msp
Magnesium, dissolved	EPA 200.7	2	9.03			mg/L	0.4	2	09/11/24 0:30	msp
Manganese, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 0:30	msp
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/05/24 16:17	aew
Nickel, dissolved	EPA 200.7	2	<0.016	U		mg/L	0.016	0.08	09/11/24 0:30	msp
Potassium, dissolved	EPA 200.7	2	4.17			mg/L	1	2	09/11/24 0:30	msp
Selenium, dissolved	EPA 200.8	5	<0.0005	U	*	mg/L	0.0005	0.00125	09/09/24 14:30	gjl
Sodium, dissolved	EPA 200.7	2	921			mg/L	0.4	2	09/11/24 0:30	msp
Vanadium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.05	09/11/24 0:30	msp
Zinc, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 0:30	msp

GCC Rio Grande
Project ID:
Sample ID: MW-10

ACZ Sample ID: ***L89810-01***
Date Sampled: *08/26/24 11:48*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	719			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	719			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.4			%			09/16/24 0:00	calc
Sum of Anions			47			meq/L			09/16/24 0:00	calc
Sum of Cations			43			meq/L			09/16/24 0:00	calc
Chloride	SM 4500-Cl E-2011	25	386		*	mg/L	25	50	09/03/24 11:32	jqr
Fluoride	SM 4500-F C-2011	1	1.35			mg/L	0.15	0.35	09/11/24 17:19	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		106			mg/L	0.5	10	09/16/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/16/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	08/28/24 0:30	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	08/28/24 0:30	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	2780			mg/L	20	40	08/29/24 14:58	cob
Sulfate	ASTM D516-07/-11/-16	100	1050			mg/L	100	500	08/29/24 13:29	jqr
TDS (calculated)	Calculation		2840			mg/L			09/16/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.98						09/16/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-9

ACZ Sample ID: ***L89810-02***
Date Sampled: *08/26/24 12:17*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	5	<0.35	U		mg/L	0.35	1.25	09/11/24 0:33	msp
Arsenic, dissolved	EPA 200.8	5	<0.001	U		mg/L	0.001	0.005	09/03/24 15:35	aps
Beryllium, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/11/24 0:33	msp
Boron, dissolved	EPA 200.7	5	1.39			mg/L	0.15	0.5	09/11/24 0:33	msp
Cadmium, dissolved	EPA 200.8	5	<0.00025	U		mg/L	0.00025	0.00125	09/03/24 15:35	aps
Calcium, dissolved	EPA 200.7	5	405			mg/L	0.5	2.5	09/11/24 0:33	msp
Chromium, dissolved	EPA 200.7	5	<0.1	U		mg/L	0.1	0.25	09/11/24 0:33	msp
Cobalt, dissolved	EPA 200.8	5	0.00143			mg/L	0.00025	0.00125	09/03/24 15:35	aps
Copper, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/11/24 0:33	msp
Iron, dissolved	EPA 200.7	5	2.16			mg/L	0.3	0.75	09/11/24 0:33	msp
Lead, dissolved	EPA 200.8	5	<0.0005	U		mg/L	0.0005	0.0025	09/03/24 15:35	aps
Lithium, dissolved	EPA 200.7	5	0.394			mg/L	0.04	0.2	09/11/24 0:33	msp
Magnesium, dissolved	EPA 200.7	5	156			mg/L	1	5	09/11/24 0:33	msp
Manganese, dissolved	EPA 200.7	5	0.361			mg/L	0.05	0.25	09/11/24 0:33	msp
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/05/24 16:22	aew
Nickel, dissolved	EPA 200.7	5	<0.04	U		mg/L	0.04	0.2	09/11/24 0:33	msp
Potassium, dissolved	EPA 200.7	5	8.79			mg/L	2.5	5	09/11/24 0:33	msp
Selenium, dissolved	EPA 200.8	5	<0.0005	U		mg/L	0.0005	0.00125	09/03/24 15:35	aps
Sodium, dissolved	EPA 200.7	5	816			mg/L	1	5	09/11/24 0:33	msp
Vanadium, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.125	09/11/24 0:33	msp
Zinc, dissolved	EPA 200.7	5	<0.1	U		mg/L	0.1	0.25	09/11/24 0:33	msp

GCC Rio Grande
Project ID:
Sample ID: MW-9

ACZ Sample ID: ***L89810-02***
Date Sampled: *08/26/24 12:17*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	421			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	421			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.1			%			09/16/24 0:00	calc
Sum of Anions			72			meq/L			09/16/24 0:00	calc
Sum of Cations			69			meq/L			09/16/24 0:00	calc
Chloride	SM 4500-Cl E-2011	1	45.1		*	mg/L	1	2	08/29/24 10:42	jqr
Fluoride	SM 4500-F C-2011	1	0.38			mg/L	0.15	0.35	09/11/24 17:37	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		1650			mg/L	1	30	09/16/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/16/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.038	B	*	mg/L	0.02	0.1	08/28/24 0:32	pjb
Nitrite as N	EPA 353.2	1	0.020	B	*	mg/L	0.01	0.05	08/28/24 0:32	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	2	4650		*	mg/L	40	80	08/29/24 15:04	cob
Sulfate	ASTM D516-07/-11/-16	100	2970			mg/L	100	500	08/29/24 13:29	jqr
TDS (calculated)	Calculation		4660			mg/L			09/16/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.00						09/16/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-18

ACZ Sample ID: ***L89810-03***
Date Sampled: *08/26/24 12:55*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	1	<0.07	U		mg/L	0.07	0.25	09/11/24 0:36	msp
Arsenic, dissolved	EPA 200.8	1	0.00236			mg/L	0.0002	0.001	09/03/24 15:37	aps
Beryllium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/11/24 0:36	msp
Boron, dissolved	EPA 200.7	1	0.636			mg/L	0.03	0.1	09/11/24 0:36	msp
Cadmium, dissolved	EPA 200.8	1	<0.00005	U		mg/L	0.00005	0.00025	09/03/24 15:37	aps
Calcium, dissolved	EPA 200.7	1	42.0			mg/L	0.1	0.5	09/11/24 0:36	msp
Chromium, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/11/24 0:36	msp
Cobalt, dissolved	EPA 200.8	1	0.000582			mg/L	0.00005	0.00025	09/03/24 15:37	aps
Copper, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/11/24 0:36	msp
Iron, dissolved	EPA 200.7	1	<0.06	U		mg/L	0.06	0.15	09/11/24 0:36	msp
Lead, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.0005	09/03/24 15:37	aps
Lithium, dissolved	EPA 200.7	1	0.122			mg/L	0.008	0.04	09/11/24 0:36	msp
Magnesium, dissolved	EPA 200.7	1	10.3			mg/L	0.2	1	09/11/24 0:36	msp
Manganese, dissolved	EPA 200.7	1	0.046	B		mg/L	0.01	0.05	09/11/24 0:36	msp
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/05/24 16:23	aew
Nickel, dissolved	EPA 200.7	1	<0.008	U		mg/L	0.008	0.04	09/11/24 0:36	msp
Potassium, dissolved	EPA 200.7	1	2.90			mg/L	0.5	1	09/11/24 0:36	msp
Selenium, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.00025	09/03/24 15:37	aps
Sodium, dissolved	EPA 200.7	1	252			mg/L	0.2	1	09/11/24 0:36	msp
Vanadium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.025	09/11/24 0:36	msp
Zinc, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/11/24 0:36	msp

GCC Rio Grande
Project ID:
Sample ID: MW-18

ACZ Sample ID: ***L89810-03***
Date Sampled: *08/26/24 12:55*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	366			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	366			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.4			%			09/16/24 0:00	calc
Sum of Anions			15			meq/L			09/16/24 0:00	calc
Sum of Cations			14			meq/L			09/16/24 0:00	calc
Chloride	SM 4500-Cl E-2011	1	24.9		*	mg/L	1	2	08/29/24 10:04	jqr
Fluoride	SM 4500-F C-2011	1	1.25			mg/L	0.15	0.35	09/11/24 17:42	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		147			mg/L	0.2	5	09/16/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		0.023	B		mg/L	0.02	0.1	09/16/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.023	B	*	mg/L	0.02	0.1	08/28/24 0:34	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	08/28/24 0:34	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	880		*	mg/L	20	40	08/29/24 15:06	cob
Sulfate	ASTM D516-07/-11/-16	25	333			mg/L	25	125	08/29/24 13:30	jqr
TDS (calculated)	Calculation		890			mg/L			09/16/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						09/16/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-6

ACZ Sample ID: ***L89810-04***
Date Sampled: *08/26/24 15:14*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	5	<0.35	U		mg/L	0.35	1.25	09/11/24 0:40	msp
Arsenic, dissolved	EPA 200.8	5	0.00191	B		mg/L	0.001	0.005	09/03/24 15:46	aps
Beryllium, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/11/24 0:40	msp
Boron, dissolved	EPA 200.7	5	0.261	B		mg/L	0.15	0.5	09/11/24 0:40	msp
Cadmium, dissolved	EPA 200.8	5	<0.00025	U		mg/L	0.00025	0.00125	09/03/24 15:46	aps
Calcium, dissolved	EPA 200.7	5	376			mg/L	0.5	2.5	09/11/24 0:40	msp
Chromium, dissolved	EPA 200.7	5	<0.1	U		mg/L	0.1	0.25	09/11/24 0:40	msp
Cobalt, dissolved	EPA 200.8	5	0.0340			mg/L	0.00025	0.00125	09/03/24 15:46	aps
Copper, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/11/24 0:40	msp
Iron, dissolved	EPA 200.7	5	1.04			mg/L	0.3	0.75	09/11/24 0:40	msp
Lead, dissolved	EPA 200.8	5	<0.0005	U		mg/L	0.0005	0.0025	09/03/24 15:46	aps
Lithium, dissolved	EPA 200.7	5	0.373			mg/L	0.04	0.2	09/11/24 0:40	msp
Magnesium, dissolved	EPA 200.7	5	357			mg/L	1	5	09/11/24 0:40	msp
Manganese, dissolved	EPA 200.7	5	0.423			mg/L	0.05	0.25	09/11/24 0:40	msp
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/05/24 16:24	aew
Nickel, dissolved	EPA 200.7	5	0.0495	B		mg/L	0.04	0.2	09/11/24 0:40	msp
Potassium, dissolved	EPA 200.7	5	9.35			mg/L	2.5	5	09/11/24 0:40	msp
Selenium, dissolved	EPA 200.8	5	<0.0005	U		mg/L	0.0005	0.00125	09/03/24 15:46	aps
Sodium, dissolved	EPA 200.7	5	584			mg/L	1	5	09/11/24 0:40	msp
Vanadium, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.125	09/11/24 0:40	msp
Zinc, dissolved	EPA 200.7	5	<0.1	U		mg/L	0.1	0.25	09/11/24 0:40	msp

GCC Rio Grande
Project ID:
Sample ID: MW-6

ACZ Sample ID: ***L89810-04***
Date Sampled: *08/26/24 15:14*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	477			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	477			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.3			%			09/16/24 0:00	calc
Sum of Anions			79			meq/L			09/16/24 0:00	calc
Sum of Cations			74			meq/L			09/16/24 0:00	calc
Chloride	SM 4500-Cl E-2011	5	82.9		*	mg/L	5	10	08/29/24 10:13	jqr
Fluoride	SM 4500-F C-2011	1	0.49			mg/L	0.15	0.35	09/11/24 17:48	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		2410			mg/L	1	30	09/16/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/16/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	08/28/24 0:39	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	08/28/24 0:39	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	2	5160		*	mg/L	40	80	08/29/24 15:09	cob
Sulfate	ASTM D516-07/-11/-16	100	3210			mg/L	100	500	08/29/24 13:30	jqr
TDS (calculated)	Calculation		4910			mg/L			09/16/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.05						09/16/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-2B

ACZ Sample ID: ***L89810-05***
Date Sampled: *08/26/24 12:00*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	5	<0.35	U		mg/L	0.35	1.25	09/11/24 0:43	msp
Arsenic, dissolved	EPA 200.8	5	0.00155	B		mg/L	0.001	0.005	09/05/24 15:54	aps
Beryllium, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/11/24 0:43	msp
Boron, dissolved	EPA 200.7	5	0.256	B		mg/L	0.15	0.5	09/11/24 0:43	msp
Cadmium, dissolved	EPA 200.8	5	<0.00025	U		mg/L	0.00025	0.00125	09/05/24 15:54	aps
Calcium, dissolved	EPA 200.7	5	383			mg/L	0.5	2.5	09/11/24 0:43	msp
Chromium, dissolved	EPA 200.7	5	<0.1	U		mg/L	0.1	0.25	09/11/24 0:43	msp
Cobalt, dissolved	EPA 200.8	5	0.0328			mg/L	0.00025	0.00125	09/05/24 15:54	aps
Copper, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/11/24 0:43	msp
Iron, dissolved	EPA 200.7	5	0.900			mg/L	0.3	0.75	09/11/24 0:43	msp
Lead, dissolved	EPA 200.8	5	<0.0005	U		mg/L	0.0005	0.0025	09/05/24 15:54	aps
Lithium, dissolved	EPA 200.7	5	0.379			mg/L	0.04	0.2	09/11/24 0:43	msp
Magnesium, dissolved	EPA 200.7	5	363			mg/L	1	5	09/11/24 0:43	msp
Manganese, dissolved	EPA 200.7	5	0.438			mg/L	0.05	0.25	09/11/24 0:43	msp
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/05/24 16:25	aew
Nickel, dissolved	EPA 200.7	5	0.0460	B		mg/L	0.04	0.2	09/11/24 0:43	msp
Potassium, dissolved	EPA 200.7	5	9.76			mg/L	2.5	5	09/11/24 0:43	msp
Selenium, dissolved	EPA 200.8	5	<0.0005	U	*	mg/L	0.0005	0.00125	09/09/24 14:32	gjl
Sodium, dissolved	EPA 200.7	5	589			mg/L	1	5	09/11/24 0:43	msp
Vanadium, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.125	09/11/24 0:43	msp
Zinc, dissolved	EPA 200.7	5	<0.1	U		mg/L	0.1	0.25	09/11/24 0:43	msp

GCC Rio Grande
Project ID:
Sample ID: MW-2B

ACZ Sample ID: ***L89810-05***
Date Sampled: *08/26/24 12:00*
Date Received: *08/27/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	480			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	480			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.0			%			09/16/24 0:00	calc
Sum of Anions			78			meq/L			09/16/24 0:00	calc
Sum of Cations			75			meq/L			09/16/24 0:00	calc
Chloride	SM 4500-Cl E-2011	5	82.2		*	mg/L	5	10	08/29/24 10:14	jqr
Fluoride	SM 4500-F C-2011	1	0.49		*	mg/L	0.15	0.35	09/11/24 17:52	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		2450			mg/L	1	30	09/16/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		0.023	B		mg/L	0.02	0.1	09/16/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.023	B	*	mg/L	0.02	0.1	08/28/24 0:40	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	08/28/24 0:40	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	10	5380		*	mg/L	200	400	08/29/24 15:11	cob
Sulfate	ASTM D516-07/-11/-16	100	3140			mg/L	100	500	08/29/24 13:31	jqr
TDS (calculated)	Calculation		4860			mg/L			09/16/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.11						09/16/24 0:00	calc

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste.
(5) Standard Methods for the Examination of Water and Wastewater.

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596681													
WG596681PBW1	PBW	09/05/24 16:12				U	mg/L		-20	20			
WG596681LCSW3	LCSW	09/05/24 16:22	WC240814-1	820.0001		811.9	mg/L	99	90	110			
L89810-05DUP	DUP	09/05/24 18:35			480	482	mg/L				0	20	
WG596681LCSW6	LCSW	09/05/24 18:47	WC240814-1	820.0001		814.2	mg/L	99	90	110			
WG596681PBW2	PBW	09/05/24 18:56				10.1	mg/L		-20	20			
WG596681LCSW9	LCSW	09/05/24 21:03	WC240814-1	820.0001		811.7	mg/L	99	90	110			
WG596681PBW3	PBW	09/05/24 21:11				10.4	mg/L		-20	20			
WG596681LCSW12	LCSW	09/05/24 23:17	WC240814-1	820.0001		824	mg/L	100	90	110			
WG596681PBW4	PBW	09/05/24 23:26				10.2	mg/L		-20	20			
WG596681LCSW15	LCSW	09/06/24 0:11	WC240814-1	820.0001		804.6	mg/L	98	90	110			

Aluminum, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.947	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.15	0.15			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.250625		.213	mg/L	85	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	200.750625		204.5	mg/L	102	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	1.0025		.967	mg/L	96	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	1.0025	U	.954	mg/L	95	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	1.0025	U	1.009	mg/L	101	85	115	6	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.956	mg/L	96	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.15	0.15			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		.976	mg/L	98	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.15	0.15			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.954	mg/L	95	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.15	0.15			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Arsenic, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596434													
WG596434ICV	ICV	09/03/24 15:19	MS240613-12	.05		.04998	mg/L	100	90	110			
WG596434ICB	ICB	09/03/24 15:21				U	mg/L		-0.00044	0.00044			
WG596434LFB	LFB	09/03/24 15:24	MS240613-7	.0501		.05153	mg/L	103	85	115			
L89810-03AS	AS	09/03/24 15:39	MS240613-7	.0501	.00236	.05611	mg/L	107	70	130			
WG596434CCV1	CCV	09/03/24 15:41	MS240710-3	.1002		.09713	mg/L	97	90	110			
WG596434CCB1	CCB	09/03/24 15:43				U	mg/L		-0.0006	0.0006			
L89810-03ASD	ASD	09/03/24 15:44	MS240613-7	.0501	.00236	.05351	mg/L	102	70	130	5	20	
WG596434CCV2	CCV	09/03/24 16:03	MS240710-3	.1002		.09861	mg/L	98	90	110			
WG596434CCB2	CCB	09/03/24 16:05				U	mg/L		-0.0006	0.0006			
WG596434CCV3	CCV	09/03/24 16:14	MS240710-3	.1002		.09709	mg/L	97	90	110			
WG596434CCB3	CCB	09/03/24 16:16				U	mg/L		-0.0006	0.0006			
WG596634													
WG596634ICV	ICV	09/05/24 15:14	MS240613-12	.05		.05088	mg/L	102	90	110			
WG596634ICB	ICB	09/05/24 15:16				U	mg/L		-0.00044	0.00044			
WG596634LFB	LFB	09/05/24 15:18	MS240613-7	.0501		.05168	mg/L	103	85	115			
WG596634CCV1	CCV	09/05/24 15:36	MS240710-3	.1002		.09643	mg/L	96	90	110			
WG596634CCB1	CCB	09/05/24 15:38				U	mg/L		-0.0006	0.0006			
WG596634CCV2	CCV	09/05/24 15:58	MS240710-3	.1002		.09594	mg/L	96	90	110			
WG596634CCB2	CCB	09/05/24 16:00				U	mg/L		-0.0006	0.0006			
L89835-01AS	AS	09/05/24 16:02	MS240613-7	.0501	.00578	.06165	mg/L	112	70	130			
L89835-01ASD	ASD	09/05/24 16:04	MS240613-7	.0501	.00578	.06171	mg/L	112	70	130	0	20	
WG596634CCV3	CCV	09/05/24 16:11	MS240710-3	.1002		.09467	mg/L	94	90	110			
WG596634CCB3	CCB	09/05/24 16:13				U	mg/L		-0.0006	0.0006			

Beryllium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.933	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.03	0.03			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.0501		.048	mg/L	96	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1002		.097	mg/L	97	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.501		.517	mg/L	103	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	.501	U	.492	mg/L	98	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	.501	U	.494	mg/L	99	85	115	0	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.981	mg/L	98	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.03	0.03			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.002	mg/L	100	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.03	0.03			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.975	mg/L	98	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.03	0.03			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Boron, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		2.071	mg/L	104	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.09	0.09			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.1001		.103	mg/L	103	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.096	mg/L	96	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.525	mg/L	105	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	.5005	U	.499	mg/L	100	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	.5005	U	.507	mg/L	101	85	115	2	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		1.025	mg/L	103	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.09	0.09			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.045	mg/L	105	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.09	0.09			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		1.037	mg/L	104	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.09	0.09			

Cadmium, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596434													
WG596434ICV	ICV	09/03/24 15:19	MS240613-12	.05		.051482	mg/L	103	90	110			
WG596434ICB	ICB	09/03/24 15:21				.000058	mg/L		-0.00011	0.00011			
WG596434LFB	LFB	09/03/24 15:24	MS240613-7	.05005		.050898	mg/L	102	85	115			
L89810-03AS	AS	09/03/24 15:39	MS240613-7	.05005	U	.051305	mg/L	103	70	130			
WG596434CCV1	CCV	09/03/24 15:41	MS240710-3	.1001		.099939	mg/L	100	90	110			
WG596434CCB1	CCB	09/03/24 15:43				U	mg/L		-0.00015	0.00015			
L89810-03ASD	ASD	09/03/24 15:44	MS240613-7	.05005	U	.050274	mg/L	100	70	130	2	20	
WG596434CCV2	CCV	09/03/24 16:03	MS240710-3	.1001		.098999	mg/L	99	90	110			
WG596434CCB2	CCB	09/03/24 16:05				U	mg/L		-0.00015	0.00015			
WG596434CCV3	CCV	09/03/24 16:14	MS240710-3	.1001		.097423	mg/L	97	90	110			
WG596434CCB3	CCB	09/03/24 16:16				U	mg/L		-0.00015	0.00015			
WG596634													
WG596634ICV	ICV	09/05/24 15:14	MS240613-12	.05		.050611	mg/L	101	90	110			
WG596634ICB	ICB	09/05/24 15:16				U	mg/L		-0.00011	0.00011			
WG596634LFB	LFB	09/05/24 15:18	MS240613-7	.05005		.052129	mg/L	104	85	115			
WG596634CCV1	CCV	09/05/24 15:36	MS240710-3	.1001		.097763	mg/L	98	90	110			
WG596634CCB1	CCB	09/05/24 15:38				U	mg/L		-0.00015	0.00015			
WG596634CCV2	CCV	09/05/24 15:58	MS240710-3	.1001		.100191	mg/L	100	90	110			
WG596634CCB2	CCB	09/05/24 16:00				U	mg/L		-0.00015	0.00015			
L89835-01AS	AS	09/05/24 16:02	MS240613-7	.05005	U	.055022	mg/L	110	70	130			
L89835-01ASD	ASD	09/05/24 16:04	MS240613-7	.05005	U	.054436	mg/L	109	70	130	1	20	
WG596634CCV3	CCV	09/05/24 16:11	MS240710-3	.1001		.096709	mg/L	97	90	110			
WG596634CCB3	CCB	09/05/24 16:13				U	mg/L		-0.00015	0.00015			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Calcium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	100		97.8	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.3	0.3			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.5025		.53	mg/L	105	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	201.5025		198.2	mg/L	98	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	67.91666		67.58	mg/L	100	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	67.91666	42.9	105.9	mg/L	93	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	67.91666	42.9	108.8	mg/L	97	85	115	3	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	50		49.43	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.3	0.3			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	50		50.48	mg/L	101	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.3	0.3			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	50		49.21	mg/L	98	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.3	0.3			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chloride SM 4500-Cl E-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596235													
WG596235ICV	ICV	08/29/24 9:39	WI231211-1	39.96		39.52	mg/L	99	90	110			
WG596235ICB	ICB	08/29/24 9:40				U	mg/L						
WG596235CCV2	CCV	08/29/24 10:02	WI240606-12	25		25.07	mg/L	100	90	110			
WG596235CCB3	CCB	08/29/24 10:02				U	mg/L						
WG596235CCV3	CCV	08/29/24 10:05	WI240606-12	25		25.27	mg/L	101	90	110			
WG596235CCB4	CCB	08/29/24 10:10				U	mg/L						
WG596235CCV4	CCV	08/29/24 10:13	WI240606-12	25		25.09	mg/L	100	90	110			
WG596235CCB5	CCB	08/29/24 10:13				U	mg/L						
L89810-05AS	AS	08/29/24 10:14	5XCL GAL	20	82.2	99.61	mg/L	87	90	110			M3
WG596235CCV5	CCV	08/29/24 10:15	WI240606-12	25		25.3	mg/L	101	90	110			
WG596235CCB6	CCB	08/29/24 10:15				U	mg/L						
L89810-05ASD	ASD	08/29/24 10:21	5XCL GAL	20	82.2	99.22	mg/L	85	90	110	0	20	M3
WG596235CCV6	CCV	08/29/24 10:22	WI240606-12	25		25.12	mg/L	100	90	110			
WG596235CCB7	CCB	08/29/24 10:22				U	mg/L						
WG596235CCV7	CCV	08/29/24 10:33	WI240606-12	25		24.77	mg/L	99	90	110			
WG596235CCB8	CCB	08/29/24 10:33				U	mg/L						
WG596235PQV	PQV	08/29/24 10:34	WI240606-13	2		1.72	mg/L	86	50	150			
WG596235LFB	LFB	08/29/24 10:34	WI240820-1	20		20.46	mg/L	102	90	110			
WG596235CCV8	CCV	08/29/24 10:37	WI240606-12	25		25.13	mg/L	101	90	110			
WG596235CCB9	CCB	08/29/24 10:37				U	mg/L						
WG596235CCV9	CCV	08/29/24 10:43	WI240606-12	25		25.09	mg/L	100	90	110			
WG596235CCB10	CCB	08/29/24 10:43				U	mg/L						
WG596235CCV10	CCV	08/29/24 10:53	WI240606-12	25		25.4	mg/L	102	90	110			
WG596235CCB11	CCB	08/29/24 10:53				U	mg/L						
WG596418													
WG596418ICV	ICV	09/03/24 10:37	WI231211-1	39.96		39.34	mg/L	98	90	110			
WG596418ICB	ICB	09/03/24 10:37				U	mg/L						
WG596418CCV1	CCV	09/03/24 10:49	WI240606-12	25		24.4	mg/L	98	90	110			
WG596418CCB1	CCB	09/03/24 10:50				U	mg/L						
WG596418PQV	PQV	09/03/24 10:50	WI240606-13	2		1.95	mg/L	98	50	150			
WG596418LFB	LFB	09/03/24 10:50	WI240820-1	20		20.71	mg/L	104	90	110			
WG596418CCV2	CCV	09/03/24 10:53	WI240606-12	25		24.95	mg/L	100	90	110			
WG596418CCB2	CCB	09/03/24 10:53				U	mg/L						
WG596418CCV3	CCV	09/03/24 11:01	WI240606-12	25		25.18	mg/L	101	90	110			
WG596418CCB3	CCB	09/03/24 11:01				U	mg/L						
WG596418CCV4	CCV	09/03/24 11:09	WI240606-12	25		24.88	mg/L	100	90	110			
WG596418CCB4	CCB	09/03/24 11:10				U	mg/L						
WG596418CCV5	CCV	09/03/24 11:11	WI240606-12	25		24.82	mg/L	99	90	110			
WG596418CCB5	CCB	09/03/24 11:12				U	mg/L						
WG596418CCV8	CCV	09/03/24 11:31	WI240606-12	25		24.57	mg/L	98	90	110			
WG596418CCB8	CCB	09/03/24 11:31				U	mg/L						
L89810-01AS	AS	09/03/24 11:32	25XCL GAL	20	386	401.07	mg/L	75	90	110			M3
L89810-01ASD	ASD	09/03/24 11:33	25XCL GAL	20	386	396.79	mg/L	54	90	110	1	20	M3
WG596418CCV9	CCV	09/03/24 11:40	WI240606-12	25		24.76	mg/L	99	90	110			
WG596418CCB9	CCB	09/03/24 11:40				U	mg/L						

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.963	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.06	0.06			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.05005		.043	mg/L	86	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.08	mg/L	80	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.507	mg/L	101	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	.5005	U	.488	mg/L	98	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	.5005	U	.497	mg/L	99	85	115	2	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.991	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.06	0.06			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.01	mg/L	101	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.06	0.06			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.99	mg/L	99	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.06	0.06			

Cobalt, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596434													
WG596434ICV	ICV	09/03/24 15:19	MS240613-12	.05		.051247	mg/L	102	90	110			
WG596434ICB	ICB	09/03/24 15:21				.000063	mg/L		-0.00011	0.00011			
WG596434LFB	LFB	09/03/24 15:24	MS240613-7	.05005		.05165	mg/L	103	85	115			
L89810-03AS	AS	09/03/24 15:39	MS240613-7	.05005	.000582	.052261	mg/L	103	70	130			
WG596434CCV1	CCV	09/03/24 15:41	MS240710-3	.1001		.101308	mg/L	101	90	110			
WG596434CCB1	CCB	09/03/24 15:43				U	mg/L		-0.00015	0.00015			
L89810-03ASD	ASD	09/03/24 15:44	MS240613-7	.05005	.000582	.051157	mg/L	101	70	130	2	20	
WG596434CCV2	CCV	09/03/24 16:03	MS240710-3	.1001		.099534	mg/L	99	90	110			
WG596434CCB2	CCB	09/03/24 16:05				.000085	mg/L		-0.00015	0.00015			
WG596634													
WG596634ICV	ICV	09/05/24 15:14	MS240613-12	.05		.051545	mg/L	103	90	110			
WG596634ICB	ICB	09/05/24 15:16				U	mg/L		-0.00011	0.00011			
WG596634LFB	LFB	09/05/24 15:18	MS240613-7	.05005		.052836	mg/L	106	85	115			
WG596634CCV1	CCV	09/05/24 15:36	MS240710-3	.1001		.100977	mg/L	101	90	110			
WG596634CCB1	CCB	09/05/24 15:38				U	mg/L		-0.00015	0.00015			
WG596634CCV2	CCV	09/05/24 15:58	MS240710-3	.1001		.102414	mg/L	102	90	110			
WG596634CCB2	CCB	09/05/24 16:00				U	mg/L		-0.00015	0.00015			
L89835-01AS	AS	09/05/24 16:02	MS240613-7	.05005	.000333	.054879	mg/L	109	70	130			
L89835-01ASD	ASD	09/05/24 16:04	MS240613-7	.05005	.000333	.05469	mg/L	109	70	130	0	20	
WG596634CCV3	CCV	09/05/24 16:11	MS240710-3	.1001		.100362	mg/L	100	90	110			
WG596634CCB3	CCB	09/05/24 16:13				U	mg/L		-0.00015	0.00015			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Copper, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.916	mg/L	96	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.03	0.03			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.05005		.052	mg/L	104	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.099	mg/L	99	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.504	mg/L	101	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	.5005	.018	.506	mg/L	98	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	.5005	.018	.507	mg/L	98	85	115	0	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.972	mg/L	97	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.03	0.03			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		.999	mg/L	100	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.03	0.03			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.971	mg/L	97	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.03	0.03			

Fluoride SM 4500-F C-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597073													
WG597073ICV	ICV	09/11/24 16:13	WC240905-2	2		2.02	mg/L	101	90	110			
WG597073ICB	ICB	09/11/24 16:21				U	mg/L		-0.3	0.3			
WG597073PQV	PQV	09/11/24 16:28	WC240802-2	.35		.36	mg/L	103	50	150			
WG597073LFB1	LFB	09/11/24 16:32	WC240411-1	5		5.19	mg/L	104	90	110			
L89728-01AS	AS	09/11/24 16:40	WC240411-1	5	.54	5.46	mg/L	98	90	110			
L89728-01ASD	ASD	09/11/24 16:44	WC240411-1	5	.54	5.43	mg/L	98	90	110	1	20	
WG597073CCV1	CCV	09/11/24 17:25	WC240905-2	2		2.011	mg/L	101	90	110			
WG597073CCB1	CCB	09/11/24 17:33				U	mg/L		-0.3	0.3			
L89810-05AS	AS	09/11/24 17:56	WC240411-1	5	.49	4.95	mg/L	89	90	110			M2
L89810-05ASD	ASD	09/11/24 18:00	WC240411-1	5	.49	4.93	mg/L	89	90	110	0	20	M2
WG597073CCV2	CCV	09/11/24 18:27	WC240905-2	2		1.992	mg/L	100	90	110			
WG597073CCB2	CCB	09/11/24 18:35				U	mg/L		-0.3	0.3			
WG597073LFB2	LFB	09/11/24 19:03	WC240411-1	5		5.07	mg/L	101	90	110			
WG597073CCV3	CCV	09/11/24 19:22	WC240905-2	2		2.03	mg/L	102	90	110			
WG597073CCB3	CCB	09/11/24 19:30				U	mg/L		-0.3	0.3			
WG597073CCV4	CCV	09/11/24 20:20	WC240905-2	2		2.069	mg/L	103	90	110			
WG597073CCB4	CCB	09/11/24 20:28				U	mg/L		-0.3	0.3			
WG597073CCV5	CCV	09/11/24 21:20	WC240905-2	2		2.069	mg/L	103	90	110			
WG597073CCB5	CCB	09/11/24 21:28				U	mg/L		-0.3	0.3			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.969	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.18	0.18			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.15045		.139	mg/L	92	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	200.75045		199.9	mg/L	100	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	1.003		1.039	mg/L	104	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	1.003	U	.997	mg/L	99	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	1.003	U	1	mg/L	100	85	115	0	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.993	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.18	0.18			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.019	mg/L	102	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.18	0.18			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.99	mg/L	99	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.18	0.18			

Lead, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596434													
WG596434ICV	ICV	09/03/24 15:19	MS240613-12	.05		.05162	mg/L	103	90	110			
WG596434ICB	ICB	09/03/24 15:21				.00012	mg/L		-0.00022	0.00022			
WG596434LFB	LFB	09/03/24 15:24	MS240613-7	.05005		.05014	mg/L	100	85	115			
L89810-03AS	AS	09/03/24 15:39	MS240613-7	.05005	U	.0531	mg/L	106	70	130			
WG596434CCV1	CCV	09/03/24 15:41	MS240710-3	.25025		.25213	mg/L	101	90	110			
WG596434CCB1	CCB	09/03/24 15:43				U	mg/L		-0.0003	0.0003			
L89810-03ASD	ASD	09/03/24 15:44	MS240613-7	.05005	U	.0525	mg/L	105	70	130	1	20	
WG596434CCV2	CCV	09/03/24 16:03	MS240710-3	.25025		.24734	mg/L	99	90	110			
WG596434CCB2	CCB	09/03/24 16:05				U	mg/L		-0.0003	0.0003			
WG596434CCV3	CCV	09/03/24 16:14	MS240710-3	.25025		.24326	mg/L	97	90	110			
WG596434CCB3	CCB	09/03/24 16:16				.00016	mg/L		-0.0003	0.0003			
WG596634													
WG596634ICV	ICV	09/05/24 15:14	MS240613-12	.05		.05104	mg/L	102	90	110			
WG596634ICB	ICB	09/05/24 15:16				U	mg/L		-0.00022	0.00022			
WG596634LFB	LFB	09/05/24 15:18	MS240613-7	.05005		.05137	mg/L	103	85	115			
WG596634CCV1	CCV	09/05/24 15:36	MS240710-3	.25025		.25076	mg/L	100	90	110			
WG596634CCB1	CCB	09/05/24 15:38				U	mg/L		-0.0003	0.0003			
WG596634CCV2	CCV	09/05/24 15:58	MS240710-3	.25025		.2519	mg/L	101	90	110			
WG596634CCB2	CCB	09/05/24 16:00				U	mg/L		-0.0003	0.0003			
L89835-01AS	AS	09/05/24 16:02	MS240613-7	.05005	.00018	.05456	mg/L	109	70	130			
L89835-01ASD	ASD	09/05/24 16:04	MS240613-7	.05005	.00018	.05358	mg/L	107	70	130	2	20	
WG596634CCV3	CCV	09/05/24 16:11	MS240710-3	.25025		.245	mg/L	98	90	110			
WG596634CCB3	CCB	09/05/24 16:13				U	mg/L		-0.0003	0.0003			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lithium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.9215	mg/L	96	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.024	0.024			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.04004		.0448	mg/L	112	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.0921	mg/L	92	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	1.001		.937	mg/L	94	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	1.001	U	.9377	mg/L	94	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	1.001	U	.9326	mg/L	93	85	115	1	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.9622	mg/L	96	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.024	0.024			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		.9888	mg/L	99	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.024	0.024			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.9602	mg/L	96	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.024	0.024			

Magnesium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	100		97.88	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.6	0.6			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	1.006		1	mg/L	99	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	202.746		202.5	mg/L	100	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	50.04719		49.95	mg/L	100	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	50.04719	3.28	52.17	mg/L	98	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	50.04719	3.28	54.47	mg/L	102	85	115	4	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	50		49.54	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.6	0.6			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	50		50.59	mg/L	101	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.6	0.6			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	50		49.4	mg/L	99	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.6	0.6			

Manganese, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.937	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.03	0.03			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.0498		.045	mg/L	90	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	50.4498		48.53	mg/L	96	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.504		.505	mg/L	100	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	.504	.103	.57	mg/L	93	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	.504	.103	.572	mg/L	93	85	115	0	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.983	mg/L	98	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.03	0.03			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.002	mg/L	100	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.03	0.03			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.975	mg/L	98	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.03	0.03			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved EPA 245.1

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596511													
WG596511ICV	ICV	09/05/24 14:21	HG240819-3	.00501		.00518	mg/L	103	95	105			
WG596511ICB	ICB	09/05/24 14:22				U	mg/L		-0.0002	0.0002			
WG596517													
WG596517CCV1	CCV	09/05/24 15:57	HG240819-3	.00501		.0051	mg/L	102	90	110			
WG596517CCB1	CCB	09/05/24 15:58				U	mg/L		-0.0002	0.0002			
WG596517PQV	PQV	09/05/24 15:59	HG240819-5	.001001		.00096	mg/L	96	70	130			
WG596517LRB	LRB	09/05/24 16:00				U	mg/L		-0.00044	0.00044			
WG596517LFB	LFB	09/05/24 16:01	HG240819-6	.002002		.00193	mg/L	96	85	115			
WG596517CCV2	CCV	09/05/24 16:09	HG240819-3	.00501		.00491	mg/L	98	90	110			
WG596517CCB2	CCB	09/05/24 16:09				U	mg/L		-0.0002	0.0002			
L89810-01LFM	LFM	09/05/24 16:18	HG240819-6	.002002	U	.00178	mg/L	89	85	115			
L89810-01LFMD	LFMD	09/05/24 16:19	HG240819-6	.002002	U	.00182	mg/L	91	85	115	2	20	
WG596517CCV3	CCV	09/05/24 16:20	HG240819-3	.00501		.00486	mg/L	97	90	110			
WG596517CCB3	CCB	09/05/24 16:21				U	mg/L		-0.0002	0.0002			
L89810-05LFM	LFM	09/05/24 16:25	HG240819-6	.002002	U	.00195	mg/L	97	85	115			
L89810-05LFMD	LFMD	09/05/24 16:26	HG240819-6	.002002	U	.0018	mg/L	90	85	115	8	20	
WG596517CCV4	CCV	09/05/24 16:28	HG240819-3	.00501		.00485	mg/L	97	90	110			
WG596517CCB4	CCB	09/05/24 16:29				U	mg/L		-0.0002	0.0002			

Nickel, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2.004		1.9458	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.024	0.024			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.04004		.0378	mg/L	94	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.10016		.093	mg/L	93	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.5074	mg/L	101	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	.5005	U	.4877	mg/L	97	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	.5005	U	.4891	mg/L	98	85	115	0	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1.002		.9655	mg/L	96	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.024	0.024			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1.002		.9815	mg/L	98	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.024	0.024			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1.002		.9759	mg/L	97	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.024	0.024			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N EPA 353.2

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596111													
WG596111ICV	ICV	08/28/24 0:20	WI240725-5	2.416		2.361	mg/L	98	90	110			
WG596111ICB	ICB	08/28/24 0:21				U	mg/L		-0.02	0.02			
WG596111PQV	PQV	08/28/24 0:25	WI240228-18	.1		.106	mg/L	106	70	130			
WG596111LFB	LFB	08/28/24 0:26	WI240228-17	2		2.047	mg/L	102	90	110			
L89383-01AS	AS	08/28/24 0:29	WI240228-17	2	U	2.005	mg/L	100	90	110			
L89810-01DUP	DUP	08/28/24 0:31			U	U	mg/L				0	20	RA
WG596111CCV1	CCV	08/28/24 0:35	WI240821-5	2		1.972	mg/L	99	90	110			
WG596111CCB1	CCB	08/28/24 0:38				U	mg/L		-0.02	0.02			
WG596111CCV2	CCV	08/28/24 0:52	WI240821-5	2		1.972	mg/L	99	90	110			
WG596111CCB2	CCB	08/28/24 0:55				U	mg/L		-0.02	0.02			
WG596111CCV3	CCV	08/28/24 1:08	WI240821-5	2		1.97	mg/L	99	90	110			
WG596111CCB3	CCB	08/28/24 1:11				U	mg/L		-0.02	0.02			
WG596111CCV4	CCV	08/28/24 1:17	WI240821-5	2		1.97	mg/L	99	90	110			
WG596111CCB4	CCB	08/28/24 1:20				U	mg/L		-0.02	0.02			

Nitrite as N EPA 353.2

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596111													
WG596111ICV	ICV	08/28/24 0:20	WI240725-5	.609		.631	mg/L	104	90	110			
WG596111ICB	ICB	08/28/24 0:21				U	mg/L		-0.01	0.01			
WG596111PQV	PQV	08/28/24 0:25	WI240228-18	.05		.057	mg/L	114	70	130			
WG596111LFB	LFB	08/28/24 0:26	WI240228-17	1		1.04	mg/L	104	90	110			
L89383-01AS	AS	08/28/24 0:29	WI240228-17	1	U	1.042	mg/L	104	90	110			
L89810-01DUP	DUP	08/28/24 0:31			U	U	mg/L				0	20	RA
WG596111CCV1	CCV	08/28/24 0:35	WI240821-5	1		.995	mg/L	100	90	110			
WG596111CCB1	CCB	08/28/24 0:38				U	mg/L		-0.01	0.01			
WG596111CCV2	CCV	08/28/24 0:52	WI240821-5	1		.986	mg/L	99	90	110			
WG596111CCB2	CCB	08/28/24 0:55				U	mg/L		-0.01	0.01			
WG596111CCV3	CCV	08/28/24 1:08	WI240821-5	1		1.007	mg/L	101	90	110			
WG596111CCB3	CCB	08/28/24 1:11				U	mg/L		-0.01	0.01			
WG596111CCV4	CCV	08/28/24 1:17	WI240821-5	1		1.001	mg/L	100	90	110			
WG596111CCB4	CCB	08/28/24 1:20				U	mg/L		-0.01	0.01			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Potassium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	20		19.41	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-1.5	1.5			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	1.002		1.09	mg/L	109	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	1.002		1.1	mg/L	110	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	100.237		98.79	mg/L	99	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	100.237	U	97.05	mg/L	97	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	100.237	U	101.2	mg/L	101	85	115	4	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	10		9.85	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-1.5	1.5			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	10		10.12	mg/L	101	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-1.5	1.5			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	10		9.96	mg/L	100	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-1.5	1.5			

Residue, Filterable (TDS) @180C SM 2540 C-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596281													
WG596281PBW	PBW	08/29/24 14:30				U	mg/L		-20	20			
WG596281LCSW	LCSW	08/29/24 14:32	PCN627256	1000		990	mg/L	99	80	120			
L89810-01DUP	DUP	08/29/24 15:01			2780	2752	mg/L				1	10	
L89875-01DUP	DUP	08/29/24 15:30			138	136	mg/L				1	10	RA

Selenium, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596434													
WG596434ICV	ICV	09/03/24 15:19	MS240613-12	.05		.05061	mg/L	101	90	110			
WG596434ICB	ICB	09/03/24 15:21				U	mg/L		-0.00022	0.00022			
WG596434LFB	LFB	09/03/24 15:24	MS240613-7	.05005		.05091	mg/L	102	85	115			
L89810-03AS	AS	09/03/24 15:39	MS240613-7	.05005	U	.05574	mg/L	111	70	130			
WG596434CCV1	CCV	09/03/24 15:41	MS240710-3	.1001		.10058	mg/L	100	90	110			
WG596434CCB1	CCB	09/03/24 15:43				U	mg/L		-0.0003	0.0003			
L89810-03ASD	ASD	09/03/24 15:44	MS240613-7	.05005	U	.05294	mg/L	106	70	130	5	20	
WG596434CCV2	CCV	09/03/24 16:03	MS240710-3	.1001		.10014	mg/L	100	90	110			
WG596434CCB2	CCB	09/03/24 16:05				U	mg/L		-0.0003	0.0003			
WG596434CCV3	CCV	09/03/24 16:14	MS240710-3	.1001		.09749	mg/L	97	90	110			
WG596434CCB3	CCB	09/03/24 16:16				U	mg/L		-0.0003	0.0003			
WG596814													
WG596814ICV	ICV	09/09/24 14:19	MS240613-12	.05		.05189	mg/L	104	90	110			
WG596814ICB	ICB	09/09/24 14:21				U	mg/L		-0.00022	0.00022			
WG596814LFB	LFB	09/09/24 14:23	MS240613-7	.05005		.05206	mg/L	104	85	115			
WG596814CCV1	CCV	09/09/24 14:42	MS240710-3	.1001		.10409	mg/L	104	90	110			
WG596814CCB1	CCB	09/09/24 14:45				.00292	mg/L		-0.0003	0.0003			BE
L89919-01AS	AS	09/09/24 14:49	MS240613-7	.05005	.00217	.05594	mg/L	107	70	130			
L89919-01ASD	ASD	09/09/24 14:51	MS240613-7	.05005	.00217	.0559	mg/L	107	70	130	0	20	
WG596814CCV2	CCV	09/09/24 14:55	MS240710-3	.1001		.09956	mg/L	99	90	110			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sodium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	100		98.17	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.6	0.6			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	1.005		1.13	mg/L	112	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	1.005		1.16	mg/L	115	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	99.97081		98.65	mg/L	99	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	99.97081	1.13	97.41	mg/L	96	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	99.97081	1.13	101.6	mg/L	100	85	115	4	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	50		49.7	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.6	0.6			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	50		51.27	mg/L	103	90	110			
WG596978CCB2	CCB	09/11/24 1:40				.39	mg/L		-0.6	0.6			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	50		49.81	mg/L	100	90	110			
WG596978CCB3	CCB	09/11/24 2:02				.36	mg/L		-0.6	0.6			

Sulfate ASTM D516-07/-11/-16

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596259													
WG596259ICV	ICV	08/29/24 11:11	WI240826-5	20.02		21.3	mg/L	106	85	115			
WG596259ICB	ICB	08/29/24 11:11				U	mg/L		-2.5	2.5			
WG596259CCV1	CCV	08/29/24 12:48	WI240819-1	25		26.2	mg/L	105	85	115			
WG596259CCB1	CCB	08/29/24 12:48				U	mg/L		-2.5	2.5			
WG596259LFB	LFB	08/29/24 12:49	WI240618-2	10		10.6	mg/L	106	85	115			
L75683-104AS	AS	08/29/24 12:49	WI240618-2	10	17.6	28.2	mg/L	106	85	115			
L75683-104ASD	ASD	08/29/24 12:50	WI240618-2	10	17.6	27.3	mg/L	97	85	115	3	20	
WG596259CCV2	CCV	08/29/24 12:52	WI240819-1	25		25.1	mg/L	100	85	115			
WG596259CCB2	CCB	08/29/24 12:52				U	mg/L		-2.5	2.5			
WG596259CCV7	CCV	08/29/24 13:27	WI240819-1	25		25.7	mg/L	103	85	115			
WG596259CCB7	CCB	08/29/24 13:27				U	mg/L		-2.5	2.5			
WG596259CCV8	CCV	08/29/24 13:32	WI240819-1	25		24.8	mg/L	99	85	115			
WG596259CCB8	CCB	08/29/24 13:32				U	mg/L		-2.5	2.5			
WG596259CCV9	CCV	08/29/24 13:37	WI240819-1	25		26	mg/L	104	85	115			
WG596259CCB9	CCB	08/29/24 13:37				U	mg/L		-2.5	2.5			

GCC

ACZ Project ID: ***L89810***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Vanadium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		2.016	mg/L	101	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.015	0.015			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.025025		.027	mg/L	108	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.104	mg/L	104	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.5151	mg/L	103	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	.5005	U	.501	mg/L	100	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	.5005	U	.525	mg/L	105	85	115	5	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		1.023	mg/L	102	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.03	0.03			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.045	mg/L	105	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.03	0.03			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		1.02	mg/L	102	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.03	0.03			

Zinc, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.935	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.06	0.06			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.0502		.048	mg/L	96	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1004		.099	mg/L	99	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.50045		.509	mg/L	102	85	115			
L89850-01AS	AS	09/11/24 0:52	II240906-2	.50045	1.24	1.673	mg/L	87	85	115			
L89850-01ASD	ASD	09/11/24 0:55	II240906-2	.50045	1.24	1.692	mg/L	90	85	115	1	20	
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.971	mg/L	97	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.06	0.06			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		.987	mg/L	99	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.06	0.06			
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.973	mg/L	97	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.06	0.06			

GCC Rio Grande ACZ Project ID: ***L89810***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L89810-01	WG596418	Chloride	SM 4500-Cl E-2011	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596111	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596814	Selenium, dissolved	EPA 200.8	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			EPA 200.8	DB	Sample required dilution due to low bias result.
L89810-02	WG596235	Chloride	SM 4500-Cl E-2011	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596111	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596281	Residue, Filterable (TDS) @180C	SM 2540 C-2011	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L89810-03	WG596235	Chloride	SM 4500-Cl E-2011	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596111	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596281	Residue, Filterable (TDS) @180C	SM 2540 C-2011	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L89810-04	WG596235	Chloride	SM 4500-Cl E-2011	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596111	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596281	Residue, Filterable (TDS) @180C	SM 2540 C-2011	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

GCC Rio Grande ACZ Project ID: ***L89810***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L89810-05	WG596235	Chloride	SM 4500-Cl E-2011	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG597073	Fluoride	SM 4500-F C-2011	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596111	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596281	Residue, Filterable (TDS) @180C	SM 2540 C-2011	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596814	Selenium, dissolved	EPA 200.8	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].

Certification Qualifiers

GCC Rio Grande ACZ Project ID: ***L89810***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

GCC Rio Grande

ACZ Project ID: L89810
Date Received: 08/27/2024 12:03
Received By:
Date Printed: 8/28/2024

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
7709	2.8	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

GCC Rio Grande

ACZ Project ID:	L89810
Date Received:	08/27/2024 12:03
Received By:	
Date Printed:	8/28/2024

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ LABORATORIES | Accredited Environmental Testing | 2773 Downhill Drive Steamboat Springs, CO 80487 (970) 879-6590 | L89810

CHAIN of CUSTODY

Report to:

Name: Amy Rodrigues	Address: 3372 Lime Road
Company: GCC Rio Grande Inc	Pueblo CO 81004
E-mail: aveek@gcc.com	Telephone: 719-647-6861

Copy of Report to:

Name: Landon Beck	E-mail: lbeck@slrconsulting.com
Company: SLR Consulting	Telephone: (970) 459-4865

Invoice to:

Name: Amy Rodrigues	Address: 3372 Lime Road
Company: GCC Rio Grande Inc	Pueblo CO 81004
E-mail: aveek@gcc.com	Telephone: 719-647-6861

Copy of Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ✓ NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes No ✓

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Amy Rodrigues Sampler's Site Information State CO Zip code 81004 Time Zone MST

*Sampler's Signature: Amy Rodrigues *I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: GW-COMPLIANCE

PO#: 258478

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

ANALYSES REQUESTED (attach list or use quote number)

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	GW-COmpliance
MW-10	8/26/2024 11:48	GW	3	✓
MW-9	8/26/2024 12:17	GW	3	✓
MW-18	8/26/2024 12:55	GW	3	✓
MW-6	8/26/2024 15:14	GW	3	✓
MW-2B	8/26/2024 12:00	GW	3	✓

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Amy Rodrigues	8/26/2024 15:50		8/27/24 1203

Qualtrax ID: 1984 Revision #: 2 White - Return with sample. Yellow - Retain for your records.

L89810 Chain of Custod

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

September 17, 2024

Report to:
Amy Rodrigues
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004

cc: Landon Beck

Bill to:
Amy Rodrigues
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004

Project ID:
ACZ Project ID: L89854

Amy Rodrigues:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 28, 2024. This project has been assigned to ACZ's project number, L89854. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L89854. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 17, 2025. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

GCC Rio Grande
Project ID:
Sample ID: MW-7

ACZ Sample ID: ***L89854-01***
Date Sampled: *08/27/24 09:36*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	2	<0.14	U		mg/L	0.14	0.5	09/11/24 1:24	msp
Arsenic, dissolved	EPA 200.8	5	<0.001	U		mg/L	0.001	0.005	09/06/24 12:22	gjl
Beryllium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:24	msp
Boron, dissolved	EPA 200.7	2	0.135	B		mg/L	0.06	0.2	09/11/24 1:24	msp
Cadmium, dissolved	EPA 200.8	5	<0.00025	U		mg/L	0.00025	0.00125	09/06/24 12:22	gjl
Calcium, dissolved	EPA 200.7	2	449			mg/L	0.2	1	09/11/24 1:24	msp
Chromium, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 1:24	msp
Cobalt, dissolved	EPA 200.8	5	0.00216			mg/L	0.00025	0.00125	09/06/24 12:22	gjl
Copper, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:24	msp
Iron, dissolved	EPA 200.7	2	<0.12	U		mg/L	0.12	0.3	09/11/24 1:24	msp
Lead, dissolved	EPA 200.8	5	<0.0005	U		mg/L	0.0005	0.0025	09/06/24 12:22	gjl
Lithium, dissolved	EPA 200.7	2	0.291			mg/L	0.016	0.08	09/11/24 1:24	msp
Magnesium, dissolved	EPA 200.7	2	337			mg/L	0.4	2	09/11/24 1:24	msp
Manganese, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:24	msp
Mercury, dissolved	EPA 245.1	1	0.00034	B		mg/L	0.0002	0.001	09/06/24 12:19	aew
Nickel, dissolved	EPA 200.7	2	0.0330	B		mg/L	0.016	0.08	09/11/24 1:24	msp
Potassium, dissolved	EPA 200.7	2	11.3			mg/L	1	2	09/11/24 1:24	msp
Selenium, dissolved	EPA 200.8	5	0.0262			mg/L	0.0005	0.00125	09/12/24 12:39	aps
Sodium, dissolved	EPA 200.7	2	366			mg/L	0.4	2	09/11/24 1:24	msp
Vanadium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.05	09/11/24 1:24	msp
Zinc, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 1:24	msp

GCC Rio Grande
Project ID:
Sample ID: MW-7

ACZ Sample ID: ***L89854-01***
Date Sampled: *08/27/24 09:36*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	237			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	237			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-0.7			%			09/17/24 0:00	calc
Sum of Anions			68			meq/L			09/17/24 0:00	calc
Sum of Cations			67			meq/L			09/17/24 0:00	calc
Chloride	SM 4500-Cl E-2011	1	46.5			mg/L	1	2	09/03/24 10:59	jqr
Fluoride	SM 4500-F C-2011	1	0.49			mg/L	0.15	0.35	09/15/24 1:18	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		2510			mg/L	0.5	10	09/17/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		3.75			mg/L	0.02	0.1	09/17/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	3.82		*	mg/L	0.02	0.1	08/29/24 1:03	pjb
Nitrite as N	EPA 353.2	1	0.074		*	mg/L	0.01	0.05	08/29/24 1:03	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	2	4560	H	*	mg/L	40	80	09/07/24 10:57	cob
Sulfate	ASTM D516-07/-11/-16	100	2940		*	mg/L	100	500	08/29/24 16:17	jqr
TDS (calculated)	Calculation		4290			mg/L			09/17/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						09/17/24 0:00	calc

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

GCC Rio Grande
Project ID:
Sample ID: MW-8

ACZ Sample ID: ***L89854-02***
Date Sampled: *08/27/24 10:05*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	2	<0.14	U		mg/L	0.14	0.5	09/11/24 1:27	msp
Arsenic, dissolved	EPA 200.8	2	0.00071	B		mg/L	0.0004	0.002	09/06/24 12:24	gjl
Beryllium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:27	msp
Boron, dissolved	EPA 200.7	2	0.845			mg/L	0.06	0.2	09/11/24 1:27	msp
Cadmium, dissolved	EPA 200.8	2	<0.0001	U		mg/L	0.0001	0.0005	09/06/24 12:24	gjl
Calcium, dissolved	EPA 200.7	2	52.9			mg/L	0.2	1	09/11/24 1:27	msp
Chromium, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 1:27	msp
Cobalt, dissolved	EPA 200.8	2	0.000212	B		mg/L	0.0001	0.0005	09/06/24 12:24	gjl
Copper, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:27	msp
Iron, dissolved	EPA 200.7	2	0.467			mg/L	0.12	0.3	09/11/24 1:27	msp
Lead, dissolved	EPA 200.8	2	<0.0002	U		mg/L	0.0002	0.001	09/06/24 12:24	gjl
Lithium, dissolved	EPA 200.7	2	0.329			mg/L	0.016	0.08	09/11/24 1:27	msp
Magnesium, dissolved	EPA 200.7	2	23.1			mg/L	0.4	2	09/11/24 1:27	msp
Manganese, dissolved	EPA 200.7	2	0.156			mg/L	0.02	0.1	09/11/24 1:27	msp
Mercury, dissolved	EPA 245.1	1	0.00041	B		mg/L	0.0002	0.001	09/06/24 12:20	aew
Nickel, dissolved	EPA 200.7	2	<0.016	U		mg/L	0.016	0.08	09/11/24 1:27	msp
Potassium, dissolved	EPA 200.7	2	5.03			mg/L	1	2	09/11/24 1:27	msp
Selenium, dissolved	EPA 200.8	2	0.00058			mg/L	0.0002	0.0005	09/09/24 20:41	aps
Sodium, dissolved	EPA 200.7	2	1140			mg/L	0.4	2	09/11/24 1:27	msp
Vanadium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.05	09/11/24 1:27	msp
Zinc, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 1:27	msp

GCC Rio Grande
Project ID:
Sample ID: MW-8

ACZ Sample ID: ***L89854-02***
Date Sampled: *08/27/24 10:05*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	1230			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	1230			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-5.2			%			09/17/24 0:00	calc
Sum of Anions			61.0			meq/L			09/17/24 0:00	calc
Sum of Cations			55			meq/L			09/17/24 0:00	calc
Chloride	SM 4500-Cl E-2011	25	322			mg/L	25	50	09/03/24 11:33	jqr
Fluoride	SM 4500-F C-2011	1	0.96			mg/L	0.15	0.35	09/15/24 1:22	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		227			mg/L	0.5	10	09/17/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		0.023	B		mg/L	0.02	0.1	09/17/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.023	B	*	mg/L	0.02	0.1	08/29/24 1:09	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	08/29/24 1:09	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	5	3800			mg/L	100	200	09/02/24 15:45	cob
Sulfate	ASTM D516-07/-11/-16	100	1300		*	mg/L	100	500	08/29/24 16:18	jqr
TDS (calculated)	Calculation		3590			mg/L			09/17/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						09/17/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-11

ACZ Sample ID: ***L89854-03***
Date Sampled: *08/27/24 10:41*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	1	<0.07	U		mg/L	0.07	0.25	09/11/24 1:30	msp
Arsenic, dissolved	EPA 200.8	1	<0.0002	U		mg/L	0.0002	0.001	09/06/24 12:27	gjl
Beryllium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/11/24 1:30	msp
Boron, dissolved	EPA 200.7	1	0.437			mg/L	0.03	0.1	09/11/24 1:30	msp
Cadmium, dissolved	EPA 200.8	1	<0.00005	U		mg/L	0.00005	0.00025	09/06/24 12:27	gjl
Calcium, dissolved	EPA 200.7	1	56.9			mg/L	0.1	0.5	09/11/24 1:30	msp
Chromium, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/11/24 1:30	msp
Cobalt, dissolved	EPA 200.8	1	0.000256			mg/L	0.00005	0.00025	09/06/24 12:27	gjl
Copper, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/11/24 1:30	msp
Iron, dissolved	EPA 200.7	1	<0.06	U		mg/L	0.06	0.15	09/11/24 1:30	msp
Lead, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.0005	09/06/24 12:27	gjl
Lithium, dissolved	EPA 200.7	1	0.162			mg/L	0.008	0.04	09/11/24 1:30	msp
Magnesium, dissolved	EPA 200.7	1	33.8			mg/L	0.2	1	09/11/24 1:30	msp
Manganese, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/11/24 1:30	msp
Mercury, dissolved	EPA 245.1	1	0.00036	B		mg/L	0.0002	0.001	09/06/24 12:23	aew
Nickel, dissolved	EPA 200.7	1	<0.008	U		mg/L	0.008	0.04	09/11/24 1:30	msp
Potassium, dissolved	EPA 200.7	1	3.58			mg/L	0.5	1	09/11/24 1:30	msp
Selenium, dissolved	EPA 200.8	1	0.0284			mg/L	0.0001	0.00025	09/09/24 20:43	aps
Sodium, dissolved	EPA 200.7	1	513			mg/L	0.2	1	09/11/24 1:30	msp
Vanadium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.025	09/11/24 1:30	msp
Zinc, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/11/24 1:30	msp

GCC Rio Grande
Project ID:
Sample ID: MW-11

ACZ Sample ID: ***L89854-03***
Date Sampled: *08/27/24 10:41*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	814			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	814			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-5.1			%			09/17/24 0:00	calc
Sum of Anions			31			meq/L			09/17/24 0:00	calc
Sum of Cations			28			meq/L			09/17/24 0:00	calc
Chloride	SM 4500-Cl E-2011	5	129			mg/L	5	10	09/03/24 11:09	jqr
Fluoride	SM 4500-F C-2011	1	0.83			mg/L	0.15	0.35	09/15/24 1:26	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		281			mg/L	0.2	5	09/17/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/17/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	08/29/24 1:10	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	08/29/24 1:10	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	1800			mg/L	20	40	09/02/24 15:48	cob
Sulfate	ASTM D516-07/-11/-16	50	519		*	mg/L	50	250	08/29/24 16:18	jqr
TDS (calculated)	Calculation		1750			mg/L			09/17/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.03						09/17/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-12

ACZ Sample ID: ***L89854-04***
Date Sampled: *08/27/24 11:13*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	2	<0.14	U		mg/L	0.14	0.5	09/11/24 1:33	msp
Arsenic, dissolved	EPA 200.8	2	0.00285			mg/L	0.0004	0.002	09/06/24 12:29	gjl
Beryllium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:33	msp
Boron, dissolved	EPA 200.7	2	0.889			mg/L	0.06	0.2	09/11/24 1:33	msp
Cadmium, dissolved	EPA 200.8	2	<0.0001	U		mg/L	0.0001	0.0005	09/06/24 12:29	gjl
Calcium, dissolved	EPA 200.7	2	22.6			mg/L	0.2	1	09/11/24 1:33	msp
Chromium, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 1:33	msp
Cobalt, dissolved	EPA 200.8	2	0.000592			mg/L	0.0001	0.0005	09/06/24 12:29	gjl
Copper, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:33	msp
Iron, dissolved	EPA 200.7	2	<0.12	U		mg/L	0.12	0.3	09/11/24 1:33	msp
Lead, dissolved	EPA 200.8	2	<0.0002	U		mg/L	0.0002	0.001	09/06/24 12:29	gjl
Lithium, dissolved	EPA 200.7	2	0.219			mg/L	0.016	0.08	09/11/24 1:33	msp
Magnesium, dissolved	EPA 200.7	2	9.53			mg/L	0.4	2	09/11/24 1:33	msp
Manganese, dissolved	EPA 200.7	2	0.046	B		mg/L	0.02	0.1	09/11/24 1:33	msp
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/06/24 12:24	aew
Nickel, dissolved	EPA 200.7	2	<0.016	U		mg/L	0.016	0.08	09/11/24 1:33	msp
Potassium, dissolved	EPA 200.7	2	4.00			mg/L	1	2	09/11/24 1:33	msp
Selenium, dissolved	EPA 200.8	2	0.00472			mg/L	0.0002	0.0005	09/09/24 20:45	aps
Sodium, dissolved	EPA 200.7	2	973			mg/L	0.4	2	09/11/24 1:33	msp
Vanadium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.05	09/11/24 1:33	msp
Zinc, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 1:33	msp

GCC Rio Grande
Project ID:
Sample ID: MW-12

ACZ Sample ID: ***L89854-04***
Date Sampled: *08/27/24 11:13*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	643			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	643			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.2			%			09/17/24 0:00	calc
Sum of Anions			47			meq/L			09/17/24 0:00	calc
Sum of Cations			45			meq/L			09/17/24 0:00	calc
Chloride	SM 4500-Cl E-2011	50	985			mg/L	50	100	09/03/24 11:34	jqr
Fluoride	SM 4500-F C-2011	1	1.77			mg/L	0.15	0.35	09/15/24 1:31	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		96			mg/L	0.5	10	09/17/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		0.046	B		mg/L	0.02	0.1	09/17/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.046	B	*	mg/L	0.02	0.1	08/29/24 1:11	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	08/29/24 1:11	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	2640			mg/L	20	40	09/02/24 15:50	cob
Sulfate	ASTM D516-07/-11/-16	25	328		*	mg/L	25	125	08/29/24 16:19	jqr
TDS (calculated)	Calculation		2720			mg/L			09/17/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.97						09/17/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-19

ACZ Sample ID: ***L89854-05***
Date Sampled: *08/27/24 11:49*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	1	<0.07	U		mg/L	0.07	0.25	09/11/24 1:43	msp
Arsenic, dissolved	EPA 200.8	1	<0.0002	U		mg/L	0.0002	0.001	09/06/24 12:35	gjl
Beryllium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/11/24 1:43	msp
Boron, dissolved	EPA 200.7	1	0.421			mg/L	0.03	0.1	09/11/24 1:43	msp
Cadmium, dissolved	EPA 200.8	1	<0.00005	U		mg/L	0.00005	0.00025	09/06/24 12:35	gjl
Calcium, dissolved	EPA 200.7	1	10.9			mg/L	0.1	0.5	09/11/24 1:43	msp
Chromium, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/11/24 1:43	msp
Cobalt, dissolved	EPA 200.8	1	0.000062	B		mg/L	0.00005	0.00025	09/06/24 12:35	gjl
Copper, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/11/24 1:43	msp
Iron, dissolved	EPA 200.7	1	<0.06	U		mg/L	0.06	0.15	09/11/24 1:43	msp
Lead, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.0005	09/06/24 12:35	gjl
Lithium, dissolved	EPA 200.7	1	0.114			mg/L	0.008	0.04	09/11/24 1:43	msp
Magnesium, dissolved	EPA 200.7	1	5.64			mg/L	0.2	1	09/11/24 1:43	msp
Manganese, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/11/24 1:43	msp
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/06/24 12:25	aew
Nickel, dissolved	EPA 200.7	1	<0.008	U		mg/L	0.008	0.04	09/11/24 1:43	msp
Potassium, dissolved	EPA 200.7	1	2.44			mg/L	0.5	1	09/11/24 1:43	msp
Selenium, dissolved	EPA 200.8	5	0.00209			mg/L	0.0005	0.00125	09/09/24 20:47	aps
Sodium, dissolved	EPA 200.7	1	456			mg/L	0.2	1	09/11/24 1:43	msp
Vanadium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.025	09/11/24 1:43	msp
Zinc, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/11/24 1:43	msp

GCC Rio Grande
Project ID:
Sample ID: MW-19

ACZ Sample ID: ***L89854-05***
Date Sampled: *08/27/24 11:49*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	550			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	550			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.3			%			09/17/24 0:00	calc
Sum of Anions			22			meq/L			09/17/24 0:00	calc
Sum of Cations			21			meq/L			09/17/24 0:00	calc
Chloride	SM 4500-Cl E-2011	5	123			mg/L	5	10	09/03/24 11:10	jqr
Fluoride	SM 4500-F C-2011	1	1.40			mg/L	0.15	0.35	09/15/24 1:34	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		50			mg/L	0.2	5	09/17/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/17/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	08/29/24 1:13	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	08/29/24 1:13	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	1290			mg/L	20	40	09/02/24 15:53	cob
Sulfate	ASTM D516-07/-11/-16	25	362		*	mg/L	25	125	08/29/24 16:19	jqr
TDS (calculated)	Calculation		1300			mg/L			09/17/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						09/17/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-20

ACZ Sample ID: ***L89854-06***
Date Sampled: *08/27/24 12:15*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	2	<0.14	U		mg/L	0.14	0.5	09/11/24 1:53	msp
Arsenic, dissolved	EPA 200.8	2	0.00319			mg/L	0.0004	0.002	09/06/24 12:37	gjl
Beryllium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:53	msp
Boron, dissolved	EPA 200.7	2	0.763			mg/L	0.06	0.2	09/11/24 1:53	msp
Cadmium, dissolved	EPA 200.8	2	<0.0001	U		mg/L	0.0001	0.0005	09/06/24 12:37	gjl
Calcium, dissolved	EPA 200.7	2	10.1			mg/L	0.2	1	09/11/24 1:53	msp
Chromium, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 1:53	msp
Cobalt, dissolved	EPA 200.8	2	0.000176	B		mg/L	0.0001	0.0005	09/06/24 12:37	gjl
Copper, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/11/24 1:53	msp
Iron, dissolved	EPA 200.7	2	<0.12	U		mg/L	0.12	0.3	09/11/24 1:53	msp
Lead, dissolved	EPA 200.8	2	<0.0002	U		mg/L	0.0002	0.001	09/06/24 12:37	gjl
Lithium, dissolved	EPA 200.7	2	0.183			mg/L	0.016	0.08	09/11/24 1:53	msp
Magnesium, dissolved	EPA 200.7	2	3.69			mg/L	0.4	2	09/11/24 1:53	msp
Manganese, dissolved	EPA 200.7	2	0.021	B		mg/L	0.02	0.1	09/11/24 1:53	msp
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/06/24 12:28	aew
Nickel, dissolved	EPA 200.7	2	<0.016	U		mg/L	0.016	0.08	09/11/24 1:53	msp
Potassium, dissolved	EPA 200.7	2	3.79			mg/L	1	2	09/11/24 1:53	msp
Selenium, dissolved	EPA 200.8	2	<0.0002	U	*	mg/L	0.0002	0.0005	09/12/24 12:40	aps
Sodium, dissolved	EPA 200.7	2	823			mg/L	0.4	2	09/11/24 1:53	msp
Vanadium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.05	09/11/24 1:53	msp
Zinc, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/11/24 1:53	msp

GCC Rio Grande
Project ID:
Sample ID: MW-20

ACZ Sample ID: ***L89854-06***
Date Sampled: *08/27/24 12:15*
Date Received: *08/28/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	593			mg/L	2	20	09/05/24 0:00	asn/rsc
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/05/24 0:00	asn/rsc
Total Alkalinity		1	593			mg/L	2	20	09/05/24 0:00	asn/rsc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.3			%			09/17/24 0:00	calc
Sum of Anions			42			meq/L			09/17/24 0:00	calc
Sum of Cations			37			meq/L			09/17/24 0:00	calc
Chloride	SM 4500-Cl E-2011	50	1010			mg/L	50	100	09/03/24 11:34	jqr
Fluoride	SM 4500-F C-2011	1	2.37			mg/L	0.15	0.35	09/15/24 1:38	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		40			mg/L	0.5	10	09/17/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/17/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.026	B	*	mg/L	0.02	0.1	08/29/24 1:14	pjb
Nitrite as N	EPA 353.2	1	0.013	B	*	mg/L	0.01	0.05	08/29/24 1:14	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	2	2140			mg/L	40	80	09/02/24 15:55	cob
Sulfate	ASTM D516-07/-11/-16	5	65.3		*	mg/L	5	25	08/29/24 15:54	jqr
TDS (calculated)	Calculation		2280			mg/L			09/17/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.94						09/17/24 0:00	calc

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste.
(5) Standard Methods for the Examination of Water and Wastewater.

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596681													
WG596681PBW1	PBW	09/05/24 16:12				U	mg/L		-20	20			
WG596681LCSW3	LCSW	09/05/24 16:22	WC240814-1	820.0001		811.9	mg/L	99	90	110			
WG596681LCSW6	LCSW	09/05/24 18:47	WC240814-1	820.0001		814.2	mg/L	99	90	110			
WG596681PBW2	PBW	09/05/24 18:56				10.1	mg/L		-20	20			
L89854-06DUP	DUP	09/05/24 20:00			593	599.9	mg/L				1	20	
WG596681LCSW9	LCSW	09/05/24 21:03	WC240814-1	820.0001		811.7	mg/L	99	90	110			
WG596681PBW3	PBW	09/05/24 21:11				10.4	mg/L		-20	20			
WG596681LCSW12	LCSW	09/05/24 23:17	WC240814-1	820.0001		824	mg/L	100	90	110			
WG596681PBW4	PBW	09/05/24 23:26				10.2	mg/L		-20	20			
WG596681LCSW15	LCSW	09/06/24 0:11	WC240814-1	820.0001		804.6	mg/L	98	90	110			

Aluminum, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.947	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.15	0.15			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.250625		.213	mg/L	85	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	200.750625		204.5	mg/L	102	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	1.0025		.967	mg/L	96	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.956	mg/L	96	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.15	0.15			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		.976	mg/L	98	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.15	0.15			
L89854-05AS	AS	09/11/24 1:46	II240906-2	1.0025	U	.947	mg/L	94	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	1.0025	U	.917	mg/L	91	85	115	3	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.954	mg/L	95	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.15	0.15			

Arsenic, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596712													
WG596712ICV	ICV	09/06/24 12:05	MS240613-12	.05		.05	mg/L	100	90	110			
WG596712ICB	ICB	09/06/24 12:07				U	mg/L		-0.00044	0.00044			
WG596712LFB	LFB	09/06/24 12:09	MS240613-7	.0501		.05113	mg/L	102	85	115			
L89835-05AS	AS	09/06/24 12:14	MS240613-7	.0501	.00458	.05854	mg/L	108	70	130			
L89835-05ASD	ASD	09/06/24 12:16	MS240613-7	.0501	.00458	.05979	mg/L	110	70	130	2	20	
WG596712CCV1	CCV	09/06/24 12:31	MS240710-3	.1002		.101	mg/L	101	90	110			
WG596712CCB1	CCB	09/06/24 12:33				U	mg/L		-0.0006	0.0006			
WG596712CCV2	CCV	09/06/24 12:56	MS240710-3	.1002		.09685	mg/L	97	90	110			
WG596712CCB2	CCB	09/06/24 12:58				U	mg/L		-0.0006	0.0006			
WG596712CCV3	CCV	09/06/24 13:11	MS240710-3	.1002		.09803	mg/L	98	90	110			
WG596712CCB3	CCB	09/06/24 13:13				U	mg/L		-0.0006	0.0006			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beryllium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.933	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.03	0.03			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.0501		.048	mg/L	96	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1002		.097	mg/L	97	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.501		.517	mg/L	103	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.981	mg/L	98	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.03	0.03			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.002	mg/L	100	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.03	0.03			
L89854-05AS	AS	09/11/24 1:46	II240906-2	.501	U	.481	mg/L	96	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	.501	U	.502	mg/L	100	85	115	4	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.975	mg/L	98	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.03	0.03			

Boron, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		2.071	mg/L	104	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.09	0.09			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.1001		.103	mg/L	103	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.096	mg/L	96	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.525	mg/L	105	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		1.025	mg/L	103	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.09	0.09			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.045	mg/L	105	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.09	0.09			
L89854-05AS	AS	09/11/24 1:46	II240906-2	.5005	.421	.905	mg/L	97	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	.5005	.421	.916	mg/L	99	85	115	1	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		1.037	mg/L	104	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.09	0.09			

Cadmium, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596712													
WG596712ICV	ICV	09/06/24 12:05	MS240613-12	.05		.051058	mg/L	102	90	110			
WG596712ICB	ICB	09/06/24 12:07				U	mg/L		-0.00011	0.00011			
WG596712LFB	LFB	09/06/24 12:09	MS240613-7	.05005		.04775	mg/L	95	85	115			
L89835-05AS	AS	09/06/24 12:14	MS240613-7	.05005	U	.053425	mg/L	107	70	130			
L89835-05ASD	ASD	09/06/24 12:16	MS240613-7	.05005	U	.053997	mg/L	108	70	130	1	20	
WG596712CCV1	CCV	09/06/24 12:31	MS240710-3	.1001		.100696	mg/L	101	90	110			
WG596712CCB1	CCB	09/06/24 12:33				U	mg/L		-0.00015	0.00015			
WG596712CCV2	CCV	09/06/24 12:56	MS240710-3	.1001		.100231	mg/L	100	90	110			
WG596712CCB2	CCB	09/06/24 12:58				U	mg/L		-0.00015	0.00015			
WG596712CCV3	CCV	09/06/24 13:11	MS240710-3	.1001		.101851	mg/L	102	90	110			
WG596712CCB3	CCB	09/06/24 13:13				U	mg/L		-0.00015	0.00015			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Calcium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	100		97.8	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.3	0.3			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.5025		.53	mg/L	105	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	201.5025		198.2	mg/L	98	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	67.91666		67.58	mg/L	100	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	50		49.43	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.3	0.3			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	50		50.48	mg/L	101	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.3	0.3			
L89854-05AS	AS	09/11/24 1:46	II240906-2	67.91666	10.9	76.32	mg/L	96	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	67.91666	10.9	75.1	mg/L	95	85	115	2	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	50		49.21	mg/L	98	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.3	0.3			

Chloride SM 4500-Cl E-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596418													
WG596418ICV	ICV	09/03/24 10:37	WI231211-1	39.96		39.34	mg/L	98	90	110			
WG596418ICB	ICB	09/03/24 10:37				U	mg/L						
WG596418CCV1	CCV	09/03/24 10:49	WI240606-12	25		24.4	mg/L	98	90	110			
WG596418CCB1	CCB	09/03/24 10:50				U	mg/L						
WG596418PQV	PQV	09/03/24 10:50	WI240606-13	2		1.95	mg/L	98	50	150			
WG596418LFB	LFB	09/03/24 10:50	WI240820-1	20		20.71	mg/L	104	90	110			
WG596418CCV2	CCV	09/03/24 10:53	WI240606-12	25		24.95	mg/L	100	90	110			
WG596418CCB2	CCB	09/03/24 10:53				U	mg/L						
WG596418CCV3	CCV	09/03/24 11:01	WI240606-12	25		25.18	mg/L	101	90	110			
WG596418CCB3	CCB	09/03/24 11:01				U	mg/L						
WG596418CCV4	CCV	09/03/24 11:09	WI240606-12	25		24.88	mg/L	100	90	110			
WG596418CCB4	CCB	09/03/24 11:10				U	mg/L						
WG596418CCV5	CCV	09/03/24 11:11	WI240606-12	25		24.82	mg/L	99	90	110			
WG596418CCB5	CCB	09/03/24 11:12				U	mg/L						
WG596418CCV8	CCV	09/03/24 11:31	WI240606-12	25		24.57	mg/L	98	90	110			
WG596418CCB8	CCB	09/03/24 11:31				U	mg/L						
L89897-02AS	AS	09/03/24 11:35	5XCL GAL	20	34.4	52.96	mg/L	93	90	110			
L89897-02ASD	ASD	09/03/24 11:40	5XCL GAL	20	34.4	53.77	mg/L	97	90	110	2	20	
WG596418CCV9	CCV	09/03/24 11:40	WI240606-12	25		24.76	mg/L	99	90	110			
WG596418CCB9	CCB	09/03/24 11:40				U	mg/L						

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.963	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.06	0.06			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.05005		.043	mg/L	86	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.08	mg/L	80	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.507	mg/L	101	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.991	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.06	0.06			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.01	mg/L	101	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.06	0.06			
L89854-05AS	AS	09/11/24 1:46	II240906-2	.5005	U	.475	mg/L	95	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	.5005	U	.493	mg/L	99	85	115	4	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.99	mg/L	99	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.06	0.06			

Cobalt, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596712													
WG596712ICV	ICV	09/06/24 12:05	MS240613-12	.05		.052078	mg/L	104	90	110			
WG596712ICB	ICB	09/06/24 12:07				U	mg/L		-0.00011	0.00011			
WG596712LFB	LFB	09/06/24 12:09	MS240613-7	.05005		.049239	mg/L	98	85	115			
L89835-05AS	AS	09/06/24 12:14	MS240613-7	.05005	.000262	.050824	mg/L	101	70	130			
L89835-05ASD	ASD	09/06/24 12:16	MS240613-7	.05005	.000262	.051161	mg/L	102	70	130	1	20	
WG596712CCV1	CCV	09/06/24 12:31	MS240710-3	.1001		.102513	mg/L	102	90	110			
WG596712CCB1	CCB	09/06/24 12:33				U	mg/L		-0.00015	0.00015			
WG596712CCV2	CCV	09/06/24 12:56	MS240710-3	.1001		.100025	mg/L	100	90	110			
WG596712CCB2	CCB	09/06/24 12:58				U	mg/L		-0.00015	0.00015			
WG596712CCV3	CCV	09/06/24 13:11	MS240710-3	.1001		.101033	mg/L	101	90	110			
WG596712CCB3	CCB	09/06/24 13:13				U	mg/L		-0.00015	0.00015			

Copper, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.916	mg/L	96	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.03	0.03			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.05005		.052	mg/L	104	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.099	mg/L	99	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.504	mg/L	101	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.972	mg/L	97	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.03	0.03			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		.999	mg/L	100	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.03	0.03			
L89854-05AS	AS	09/11/24 1:46	II240906-2	.5005	U	.482	mg/L	96	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	.5005	U	.502	mg/L	100	85	115	4	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.971	mg/L	97	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.03	0.03			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride SM 4500-F C-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597258													
WG597258ICV	ICV	09/14/24 22:17	WC240914-1	2		2.06	mg/L	103	90	110			
WG597258ICB	ICB	09/14/24 22:23				U	mg/L		-0.3	0.3			
WG597258PQV	PQV	09/14/24 22:28	WC240802-2	.35		.34	mg/L	97	50	150			
WG597258LFB1	LFB	09/14/24 22:32	WC240411-1	5		5.26	mg/L	105	90	110			
WG597258CCV1	CCV	09/14/24 23:13	WC240914-1	2		2.052	mg/L	103	90	110			
WG597258CCB1	CCB	09/14/24 23:20				U	mg/L		-0.3	0.3			
WG597258CCV2	CCV	09/15/24 0:02	WC240914-1	2		2.032	mg/L	102	90	110			
WG597258CCB2	CCB	09/15/24 0:10				U	mg/L		-0.3	0.3			
WG597258LFB2	LFB	09/15/24 0:33	WC240411-1	5		5.14	mg/L	103	90	110			
L89835-03AS	AS	09/15/24 0:41	WC240411-1	5	.27	5.26	mg/L	100	90	110			
L89835-03ASD	ASD	09/15/24 0:44	WC240411-1	5	.27	5.21	mg/L	99	90	110	1	20	
WG597258CCV3	CCV	09/15/24 0:54	WC240914-1	2		2.003	mg/L	100	90	110			
WG597258CCB3	CCB	09/15/24 1:01				U	mg/L		-0.3	0.3			
L89854-06AS	AS	09/15/24 1:41	WC240411-1	5	2.37	7.46	mg/L	102	90	110			
WG597258CCV4	CCV	09/15/24 1:45	WC240914-1	2		2.071	mg/L	104	90	110			
WG597258CCB4	CCB	09/15/24 1:53				U	mg/L		-0.3	0.3			
L89854-06ASD	ASD	09/15/24 1:56	WC240411-1	5	2.37	7.36	mg/L	100	90	110	1	20	
WG597258CCV5	CCV	09/15/24 2:34	WC240914-1	2		2.003	mg/L	100	90	110			
WG597258CCB5	CCB	09/15/24 2:42				U	mg/L		-0.3	0.3			

Iron, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.969	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.18	0.18			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.15045		.139	mg/L	92	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	200.75045		199.9	mg/L	100	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	1.003		1.039	mg/L	104	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.993	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.18	0.18			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.019	mg/L	102	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.18	0.18			
L89854-05AS	AS	09/11/24 1:46	II240906-2	1.003	U	1	mg/L	100	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	1.003	U	1.038	mg/L	103	85	115	4	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.99	mg/L	99	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.18	0.18			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596712													
WG596712ICV	ICV	09/06/24 12:05	MS240613-12	.05		.05169	mg/L	103	90	110			
WG596712ICB	ICB	09/06/24 12:07				U	mg/L		-0.00022	0.00022			
WG596712LFB	LFB	09/06/24 12:09	MS240613-7	.05005		.04837	mg/L	97	85	115			
L89835-05AS	AS	09/06/24 12:14	MS240613-7	.05005	U	.05361	mg/L	107	70	130			
L89835-05ASD	ASD	09/06/24 12:16	MS240613-7	.05005	U	.05567	mg/L	111	70	130	4	20	
WG596712CCV1	CCV	09/06/24 12:31	MS240710-3	.25025		.24844	mg/L	99	90	110			
WG596712CCB1	CCB	09/06/24 12:33				U	mg/L		-0.0003	0.0003			
WG596712CCV2	CCV	09/06/24 12:56	MS240710-3	.25025		.25383	mg/L	101	90	110			
WG596712CCB2	CCB	09/06/24 12:58				U	mg/L		-0.0003	0.0003			
WG596712CCV3	CCV	09/06/24 13:11	MS240710-3	.25025		.25656	mg/L	103	90	110			
WG596712CCB3	CCB	09/06/24 13:13				U	mg/L		-0.0003	0.0003			

Lithium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.9215	mg/L	96	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.024	0.024			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.04004		.0448	mg/L	112	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.0921	mg/L	92	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	1.001		.937	mg/L	94	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.9622	mg/L	96	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.024	0.024			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		.9888	mg/L	99	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.024	0.024			
L89854-05AS	AS	09/11/24 1:46	II240906-2	1.001	.114	1.072	mg/L	96	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	1.001	.114	1.019	mg/L	90	85	115	5	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.9602	mg/L	96	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.024	0.024			

Magnesium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	100		97.88	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.6	0.6			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	1.006		1	mg/L	99	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	202.746		202.5	mg/L	100	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	50.04719		49.95	mg/L	100	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	50		49.54	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.6	0.6			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	50		50.59	mg/L	101	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.6	0.6			
L89854-05AS	AS	09/11/24 1:46	II240906-2	50.04719	5.64	55.19	mg/L	99	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	50.04719	5.64	54.22	mg/L	97	85	115	2	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	50		49.4	mg/L	99	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.6	0.6			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Manganese, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.937	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.03	0.03			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.0498		.045	mg/L	90	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	50.4498		48.53	mg/L	96	1	200			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.504		.505	mg/L	100	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.983	mg/L	98	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.03	0.03			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.002	mg/L	100	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.03	0.03			
L89854-05AS	AS	09/11/24 1:46	II240906-2	.504	U	.48	mg/L	95	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	.504	U	.499	mg/L	99	85	115	4	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.975	mg/L	98	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.03	0.03			

Mercury, dissolved EPA 245.1

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596578													
WG596578ICV	ICV	09/06/24 12:15	HG240819-3	.00501		.00505	mg/L	101	95	105			
WG596578ICB	ICB	09/06/24 12:16				U	mg/L		-0.0002	0.0002			
WG596578PQV	PQV	09/06/24 12:16	HG240819-5	.001001		.00101	mg/L	101	70	130			
WG596578LRB	LRB	09/06/24 12:17				U	mg/L		-0.00044	0.00044			
WG596578LFB	LFB	09/06/24 12:18	HG240819-6	.002002		.00212	mg/L	106	85	115			
L89854-02LFM	LFM	09/06/24 12:21	HG240819-6	.002002	.00041	.00225	mg/L	92	85	115			
L89854-02LFMD	LFMD	09/06/24 12:22	HG240819-6	.002002	.00041	.00227	mg/L	93	85	115	1	20	
WG596578CCV1	CCV	09/06/24 12:26	HG240819-3	.00501		.0047	mg/L	94	90	110			
WG596578CCB1	CCB	09/06/24 12:27				U	mg/L		-0.0002	0.0002			
WG596578CCV2	CCV	09/06/24 12:37	HG240819-3	.00501		.0049	mg/L	98	90	110			
WG596578CCB2	CCB	09/06/24 12:38				U	mg/L		-0.0002	0.0002			
WG596578CCV3	CCV	09/06/24 12:46	HG240819-3	.00501		.0048	mg/L	96	90	110			
WG596578CCB3	CCB	09/06/24 12:47				U	mg/L		-0.0002	0.0002			

Nickel, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2.004		1.9458	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.024	0.024			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.04004		.0378	mg/L	94	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.10016		.093	mg/L	93	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.5074	mg/L	101	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1.002		.9655	mg/L	96	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.024	0.024			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1.002		.9815	mg/L	98	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.024	0.024			
L89854-05AS	AS	09/11/24 1:46	II240906-2	.5005	U	.4875	mg/L	97	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	.5005	U	.5031	mg/L	101	85	115	3	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1.002		.9759	mg/L	97	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.024	0.024			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N EPA 353.2

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596223													
WG596223ICV	ICV	08/29/24 0:33	WI240725-5	2.416		2.42	mg/L	100	90	110			
WG596223ICB	ICB	08/29/24 0:34				U	mg/L		-0.02	0.02			
WG596223LFB	LFB	08/29/24 0:38	WI240828-3	2		2.026	mg/L	101	90	110			
WG596223CCV1	CCV	08/29/24 0:48	WI240828-5	2		2.031	mg/L	102	90	110			
WG596223CCB1	CCB	08/29/24 0:51				U	mg/L		-0.02	0.02			
L89851-13AS	AS	08/29/24 1:00	WI240828-3	2	U	2.001	mg/L	100	90	110			
L89851-14DUP	DUP	08/29/24 1:02			U	U	mg/L				0	20	RA
WG596223CCV2	CCV	08/29/24 1:05	WI240828-5	2		2.035	mg/L	102	90	110			
WG596223CCB2	CCB	08/29/24 1:08				U	mg/L		-0.02	0.02			
WG596223CCV3	CCV	08/29/24 1:19	WI240828-5	2		2.034	mg/L	102	90	110			
WG596223CCB3	CCB	08/29/24 1:22				U	mg/L		-0.02	0.02			

Nitrite as N EPA 353.2

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596223													
WG596223ICV	ICV	08/29/24 0:33	WI240725-5	.609		.61	mg/L	100	90	110			
WG596223ICB	ICB	08/29/24 0:34				U	mg/L		-0.01	0.01			
WG596223LFB	LFB	08/29/24 0:38	WI240828-3	1		.984	mg/L	98	90	110			
WG596223CCV1	CCV	08/29/24 0:48	WI240828-5	1		.987	mg/L	99	90	110			
WG596223CCB1	CCB	08/29/24 0:51				U	mg/L		-0.01	0.01			
L89851-13AS	AS	08/29/24 1:00	WI240828-3	1	U	.935	mg/L	94	90	110			
L89851-14DUP	DUP	08/29/24 1:02			U	U	mg/L				0	20	RA
WG596223CCV2	CCV	08/29/24 1:05	WI240828-5	1		.994	mg/L	99	90	110			
WG596223CCB2	CCB	08/29/24 1:08				U	mg/L		-0.01	0.01			
WG596223CCV3	CCV	08/29/24 1:19	WI240828-5	1		.991	mg/L	99	90	110			
WG596223CCB3	CCB	08/29/24 1:22				U	mg/L		-0.01	0.01			

Potassium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	20		19.41	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-1.5	1.5			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	1.002		1.09	mg/L	109	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	1.002		1.1	mg/L	110	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	100.237		98.79	mg/L	99	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	10		9.85	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-1.5	1.5			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	10		10.12	mg/L	101	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-1.5	1.5			
L89854-05AS	AS	09/11/24 1:46	II240906-2	100.237	2.44	99.44	mg/L	97	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	100.237	2.44	98.07	mg/L	95	85	115	1	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	10		9.96	mg/L	100	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-1.5	1.5			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Filterable (TDS) @180C SM 2540 C-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596386													
WG596386PBW	PBW	09/02/24 15:35				U	mg/L		-20	20			
WG596386LCSW	LCSW	09/02/24 15:37	PCN627256	1000		982	mg/L	98	80	120			
L89868-03DUP	DUP	09/02/24 16:06			354	362	mg/L				2	10	
WG596790													
WG596790PBW	PBW	09/07/24 10:00				U	mg/L		-20	20			
WG596790LCSW	LCSW	09/07/24 10:02	PCN627255	1000		960	mg/L	96	80	120			
L76851-83DUP	DUP	09/07/24 10:54			46	38	mg/L				19	10	RA

Selenium, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596895													
WG596895ICV	ICV	09/09/24 20:36	MS240613-12	.05		.05114	mg/L	102	90	110			
WG596895ICB	ICB	09/09/24 20:38				U	mg/L		-0.00022	0.00022			
WG596895LFB	LFB	09/09/24 20:40	MS240613-7	.05005		.0498	mg/L	100	85	115			
WG596895CCV1	CCV	09/09/24 20:58	MS240710-3	.1001		.09924	mg/L	99	90	110			
WG596895CCB1	CCB	09/09/24 20:59				U	mg/L		-0.0003	0.0003			
L89876-01AS	AS	09/09/24 21:01	MS240613-7	.05005	U	.05657	mg/L	113	70	130			
L89876-01ASD	ASD	09/09/24 21:03	MS240613-7	.05005	U	.05657	mg/L	113	70	130	0	20	
WG597149													
WG597149ICV	ICV	09/12/24 12:30	MS240613-12	.05		.05244	mg/L	105	90	110			
WG597149ICB	ICB	09/12/24 12:31				U	mg/L		-0.00022	0.00022			
WG597149LFB	LFB	09/12/24 12:33	MS240911-3	.05005		.05313	mg/L	106	85	115			
WG597149CCV1	CCV	09/12/24 12:51	MS240703-4	.1001		.09489	mg/L	95	90	110			
WG597149CCB1	CCB	09/12/24 12:53				U	mg/L		-0.0003	0.0003			
L89883-03AS	AS	09/12/24 12:55	MS240911-3	.05005	U	.05734	mg/L	115	70	130			
L89883-03ASD	ASD	09/12/24 12:57	MS240911-3	.05005	U	.05809	mg/L	116	70	130	1	20	
WG597149CCV2	CCV	09/12/24 13:13	MS240703-4	.1001		.09758	mg/L	97	90	110			
WG597149CCB2	CCB	09/12/24 13:15				U	mg/L		-0.0003	0.0003			
WG597149CCV3	CCV	09/12/24 13:26	MS240703-4	.1001		.09549	mg/L	95	90	110			
WG597149CCB3	CCB	09/12/24 13:28				U	mg/L		-0.0003	0.0003			

Sodium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	100		98.17	mg/L	98	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.6	0.6			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	1.005		1.13	mg/L	112	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	1.005		1.16	mg/L	115	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	99.97081		98.65	mg/L	99	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	50		49.7	mg/L	99	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.6	0.6			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	50		51.27	mg/L	103	90	110			
WG596978CCB2	CCB	09/11/24 1:40				.39	mg/L		-0.6	0.6			
L89854-05AS	AS	09/11/24 1:46	II240906-2	99.97081	456	542.6	mg/L	87	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	99.97081	456	541.4	mg/L	85	85	115	0	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	50		49.81	mg/L	100	90	110			
WG596978CCB3	CCB	09/11/24 2:02				.36	mg/L		-0.6	0.6			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sulfate ASTM D516-07/-11/-16

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596294													
WG596294ICV	ICV	08/29/24 11:11	WI240826-5	20.02		21.3	mg/L	106	85	115			
WG596294ICB	ICB	08/29/24 11:11				U	mg/L		-2.5	2.5			
WG596294CCV1	CCV	08/29/24 15:36	WI240819-1	25		26.8	mg/L	107	85	115			
WG596294CCB1	CCB	08/29/24 15:36				U	mg/L		-2.5	2.5			
WG596294LFB	LFB	08/29/24 15:36	WI240618-2	10		10.6	mg/L	106	85	115			
WG596294CCV2	CCV	08/29/24 15:39	WI240819-1	25		24.9	mg/L	100	85	115			
WG596294CCB2	CCB	08/29/24 15:40				U	mg/L		-2.5	2.5			
WG596294CCV3	CCV	08/29/24 15:43	WI240819-1	25		24.5	mg/L	98	85	115			
WG596294CCB3	CCB	08/29/24 15:43				U	mg/L		-2.5	2.5			
WG596294CCV4	CCV	08/29/24 15:47	WI240819-1	25		24.8	mg/L	99	85	115			
WG596294CCB4	CCB	08/29/24 15:47				U	mg/L		-2.5	2.5			
WG596294CCV5	CCV	08/29/24 15:52	WI240819-1	25		25.8	mg/L	103	85	115			
WG596294CCB5	CCB	08/29/24 15:53				U	mg/L		-2.5	2.5			
WG596294CCV6	CCV	08/29/24 15:56	WI240819-1	25		26	mg/L	104	85	115			
WG596294CCB6	CCB	08/29/24 15:56				U	mg/L		-2.5	2.5			
WG596294CCV8	CCV	08/29/24 16:11	WI240819-1	25		25	mg/L	100	85	115			
WG596294CCB8	CCB	08/29/24 16:11				U	mg/L		-2.5	2.5			
WG596294CCV9	CCV	08/29/24 16:16	WI240819-1	25		24.8	mg/L	99	85	115			
WG596294CCB9	CCB	08/29/24 16:16				U	mg/L		-2.5	2.5			
L89866-02AS	AS	08/29/24 16:20	SO4TURB25X	10	261	258.6	mg/L	-24	85	115			M3
WG596294CCV10	CCV	08/29/24 16:20	WI240819-1	25		24.7	mg/L	99	85	115			
WG596294CCB10	CCB	08/29/24 16:21				U	mg/L		-2.5	2.5			
L89866-02ASD	ASD	08/29/24 16:21	SO4TURB25X	10	261	245.9	mg/L	-151	85	115	5	20	M3
WG596294CCV11	CCV	08/29/24 16:22	WI240819-1	25		25.1	mg/L	100	85	115			
WG596294CCB11	CCB	08/29/24 16:22				U	mg/L		-2.5	2.5			
WG596294CCV12	CCV	08/29/24 16:24	WI240819-1	25		25.1	mg/L	100	85	115			
WG596294CCB12	CCB	08/29/24 16:24				U	mg/L		-2.5	2.5			

Vanadium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		2.016	mg/L	101	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.015	0.015			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.025025		.027	mg/L	108	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1001		.104	mg/L	104	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.5005		.5151	mg/L	103	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		1.023	mg/L	102	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.03	0.03			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		1.045	mg/L	105	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.03	0.03			
L89854-05AS	AS	09/11/24 1:46	II240906-2	.5005	U	.5103	mg/L	102	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	.5005	U	.502	mg/L	100	85	115	2	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		1.02	mg/L	102	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.03	0.03			

GCC

ACZ Project ID: ***L89854***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596978													
WG596978ICV	ICV	09/11/24 0:08	II240829-2	2		1.935	mg/L	97	95	105			
WG596978ICB	ICB	09/11/24 0:14				U	mg/L		-0.06	0.06			
WG596978PQV	PQV	09/11/24 0:17	II240826-4	.0502		.048	mg/L	96	70	130			
WG596978SIC	SIC	09/11/24 0:20	II240903-3	.1004		.099	mg/L	99	80	120			
WG596978LFB	LFB	09/11/24 0:27	II240906-2	.50045		.509	mg/L	102	85	115			
WG596978CCV1	CCV	09/11/24 0:58	II240903-1	1		.971	mg/L	97	90	110			
WG596978CCB1	CCB	09/11/24 1:01				U	mg/L		-0.06	0.06			
WG596978CCV2	CCV	09/11/24 1:37	II240903-1	1		.987	mg/L	99	90	110			
WG596978CCB2	CCB	09/11/24 1:40				U	mg/L		-0.06	0.06			
L89854-05AS	AS	09/11/24 1:46	II240906-2	.50045	U	.509	mg/L	102	85	115			
L89854-05ASD	ASD	09/11/24 1:49	II240906-2	.50045	U	.5	mg/L	100	85	115	2	20	
WG596978CCV3	CCV	09/11/24 1:59	II240903-1	1		.973	mg/L	97	90	110			
WG596978CCB3	CCB	09/11/24 2:02				U	mg/L		-0.06	0.06			

GCC Rio Grande ACZ Project ID: ***L89854***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L89854-01	WG596223	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596790	Residue, Filterable (TDS) @180C	SM 2540 C-2011	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			SM 2540 C-2011	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596294	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89854-02	WG596223	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596294	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89854-03	WG596223	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596294	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89854-04	WG596223	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596294	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89854-05	WG596223	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596294	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Inorganic Extended Qualifier Report

GCC Rio Grande ACZ Project ID: ***L89854***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L89854-06	WG596223	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG597149	Selenium, dissolved	EPA 200.8	EA	Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.
	WG596294	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Certification Qualifiers

GCC Rio Grande ACZ Project ID: ***L89854***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

GCC Rio Grande

ACZ Project ID: L89854
Date Received: 08/28/2024 10:16
Received By:
Date Printed: 8/29/2024

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA42765	-0.1	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

GCC Rio Grande

ACZ Project ID:	L89854
Date Received:	08/28/2024 10:16
Received By:	
Date Printed:	8/29/2024

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ LABORATORIES | Accredited Environmental Testing | 2773 Downhill Drive, Steamboat Springs, CO 80487, (970) 879-6590 | L89854

CHAIN of CUSTODY

Report to:

Name: Amy Rodrigues	Address: 3372 Lime Road
Company: GCC Rio Grande Inc	Pueblo CO 81004
E-mail: aveek@gcc.com	Telephone: 719-647-6861

Copy of Report to:

Name: Landon Beck	E-mail: lbeck@slrconsulting.com
Company: SLR Consulting	Telephone: (970) 459-4865

Invoice to:

Name: Amy Rodrigues	Address: 3372 Lime Road
Company: GCC Rio Grande Inc	Pueblo CO 81004
E-mail: aveek@gcc.com	Telephone: 719-647-6861

Copy of Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ✓ NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes No ✓

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Amy Rodrigues **Sampler's Site Information** **State** CO **Zip code** 81004 **Time Zone** MST

***Sampler's Signature:** Amy Rodrigues

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION — ANALYSES REQUESTED *(attach list or use quote number)*

Quote #: GW-COMPLIANCE

PO#: 258478

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	GW-COmpliance
MW-7	8/27/2024 09:36	GW	3	✓
MW-8	8/27/2024 10:05	GW	3	✓
MW-11	8/27/2024 10:41	GW	3	✓
MW-12	8/27/2024 11:13	GW	3	✓
MW-19	8/27/2024 11:49	GW	3	✓
MW-20	8/27/2024 12:15	GW	3	✓

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Amy Rodrigues	8/27/24 14:00		8/28/24 1016

Qualtrax ID: 1984 Revision #: 2 White - Return with sample. Yellow - Retain for your records.

L89854 Chain of Custod

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

September 25, 2024

Report to:
Meghan Way
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004

cc: Landon Beck

Bill to:
Meghan Way
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004

Project ID:
ACZ Project ID: L89982

Meghan Way:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 05, 2024. This project has been assigned to ACZ's project number, L89982. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L89982. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 25, 2025. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

GCC Rio Grande
Project ID:
Sample ID: MW-13

ACZ Sample ID: ***L89982-01***
Date Sampled: *09/04/24 10:30*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	2	<0.14	U		mg/L	0.14	0.5	09/17/24 16:26	wtc
Arsenic, dissolved	EPA 200.8	1	0.00043	B		mg/L	0.0002	0.001	09/12/24 20:11	aps
Beryllium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/17/24 16:26	wtc
Boron, dissolved	EPA 200.7	2	1.04			mg/L	0.06	0.2	09/17/24 16:26	wtc
Cadmium, dissolved	EPA 200.8	1	<0.00005	U		mg/L	0.00005	0.00025	09/12/24 20:11	aps
Calcium, dissolved	EPA 200.7	2	6.80			mg/L	0.2	1	09/17/24 16:26	wtc
Chromium, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/17/24 16:26	wtc
Cobalt, dissolved	EPA 200.8	1	0.000065	B		mg/L	0.00005	0.00025	09/12/24 20:11	aps
Copper, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/21/24 0:34	msp
Iron, dissolved	EPA 200.7	2	<0.12	U		mg/L	0.12	0.3	09/17/24 16:26	wtc
Lead, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.0005	09/12/24 20:11	aps
Lithium, dissolved	EPA 200.7	2	0.235			mg/L	0.016	0.08	09/17/24 16:26	wtc
Magnesium, dissolved	EPA 200.7	2	2.05			mg/L	0.4	2	09/17/24 16:26	wtc
Manganese, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/17/24 16:26	wtc
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/13/24 11:27	aew
Nickel, dissolved	EPA 200.7	2	<0.016	U		mg/L	0.016	0.08	09/17/24 16:26	wtc
Potassium, dissolved	EPA 200.7	2	2.46			mg/L	1	2	09/17/24 16:26	wtc
Selenium, dissolved	EPA 200.8	2	<0.0002	U	*	mg/L	0.0002	0.0005	09/16/24 21:19	aps
Sodium, dissolved	EPA 200.7	2	1040		*	mg/L	0.4	2	09/19/24 21:40	msp
Vanadium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.05	09/17/24 16:26	wtc
Zinc, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/17/24 16:26	wtc

GCC Rio Grande
Project ID:
Sample ID: MW-13

ACZ Sample ID: ***L89982-01***
Date Sampled: *09/04/24 10:30*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	1250			mg/L	2	20	09/18/24 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Total Alkalinity		1	1250			mg/L	2	20	09/18/24 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.1			%			09/25/24 0:00	calc
Sum of Anions			48			meq/L			09/25/24 0:00	calc
Sum of Cations			46			meq/L			09/25/24 0:00	calc
Chloride	SM 4500-Cl E-2011	50	645			mg/L	50	100	09/06/24 11:53	jqr
Fluoride	SM 4500-F C-2011	1	6.13			mg/L	0.15	0.35	09/17/24 19:57	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		25			mg/L	0.5	10	09/25/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/25/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	09/06/24 0:38	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	09/06/24 0:38	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	2	2810			mg/L	40	80	09/10/24 9:40	lgh
Sulfate	ASTM D516-07/-11/-16	5	197		*	mg/L	5	25	09/09/24 14:36	jqr
TDS (calculated)	Calculation		2660			mg/L			09/25/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						09/25/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-14

ACZ Sample ID: ***L89982-02***
Date Sampled: *09/04/24 11:32*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	5	<0.35	U		mg/L	0.35	1.25	09/17/24 16:29	wtc
Arsenic, dissolved	EPA 200.8	1	0.00303			mg/L	0.0002	0.001	09/12/24 20:13	aps
Beryllium, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/17/24 16:29	wtc
Boron, dissolved	EPA 200.7	5	1.34			mg/L	0.15	0.5	09/17/24 16:29	wtc
Cadmium, dissolved	EPA 200.8	5	<0.00025	U	*	mg/L	0.00025	0.00125	09/16/24 21:21	aps
Calcium, dissolved	EPA 200.7	5	18.6			mg/L	0.5	2.5	09/17/24 16:29	wtc
Chromium, dissolved	EPA 200.7	5	<0.1	U		mg/L	0.1	0.25	09/17/24 16:29	wtc
Cobalt, dissolved	EPA 200.8	1	0.000113	B		mg/L	0.00005	0.00025	09/12/24 20:13	aps
Copper, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/21/24 0:37	msp
Iron, dissolved	EPA 200.7	5	0.977			mg/L	0.3	0.75	09/17/24 16:29	wtc
Lead, dissolved	EPA 200.8	5	<0.0005	U	*	mg/L	0.0005	0.0025	09/16/24 21:21	aps
Lithium, dissolved	EPA 200.7	5	0.452			mg/L	0.04	0.2	09/17/24 16:29	wtc
Magnesium, dissolved	EPA 200.7	5	6.35			mg/L	1	5	09/17/24 16:29	wtc
Manganese, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.25	09/17/24 16:29	wtc
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/13/24 11:28	aew
Nickel, dissolved	EPA 200.7	5	<0.04	U		mg/L	0.04	0.2	09/17/24 16:29	wtc
Potassium, dissolved	EPA 200.7	5	4.68	B		mg/L	2.5	5	09/17/24 16:29	wtc
Selenium, dissolved	EPA 200.8	5	<0.0005	U	*	mg/L	0.0005	0.00125	09/16/24 21:21	aps
Sodium, dissolved	EPA 200.7	5	1840		*	mg/L	1	5	09/19/24 21:43	msp
Vanadium, dissolved	EPA 200.7	5	<0.05	U		mg/L	0.05	0.125	09/17/24 16:29	wtc
Zinc, dissolved	EPA 200.7	5	<0.1	U		mg/L	0.1	0.25	09/17/24 16:29	wtc

GCC Rio Grande
Project ID:
Sample ID: MW-14

ACZ Sample ID: ***L89982-02***
Date Sampled: *09/04/24 11:32*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	1400			mg/L	2	20	09/18/24 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Total Alkalinity		1	1400			mg/L	2	20	09/18/24 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.4			%			09/25/24 0:00	calc
Sum of Anions			87			meq/L			09/25/24 0:00	calc
Sum of Cations			83			meq/L			09/25/24 0:00	calc
Chloride	SM 4500-Cl E-2011	100	1830			mg/L	100	200	09/06/24 11:53	jqr
Fluoride	SM 4500-F C-2011	1	3.03			mg/L	0.15	0.35	09/17/24 20:00	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		73			mg/L	1	30	09/25/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/25/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	09/06/24 0:39	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	09/06/24 0:39	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	2	5000			mg/L	40	80	09/10/24 9:42	lgh
Sulfate	ASTM D516-07/-11/-16	25	357		*	mg/L	25	125	09/09/24 15:01	jqr
TDS (calculated)	Calculation		4910			mg/L			09/25/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.02						09/25/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-21

ACZ Sample ID: ***L89982-03***
Date Sampled: *09/04/24 12:17*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	2	<0.14	U		mg/L	0.14	0.5	09/17/24 16:33	wtc
Arsenic, dissolved	EPA 200.8	1	<0.0002	U		mg/L	0.0002	0.001	09/12/24 20:15	aps
Beryllium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/17/24 16:33	wtc
Boron, dissolved	EPA 200.7	2	0.636			mg/L	0.06	0.2	09/17/24 16:33	wtc
Cadmium, dissolved	EPA 200.8	1	<0.00005	U		mg/L	0.00005	0.00025	09/12/24 20:15	aps
Calcium, dissolved	EPA 200.7	2	8.87			mg/L	0.2	1	09/17/24 16:33	wtc
Chromium, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/17/24 16:33	wtc
Cobalt, dissolved	EPA 200.8	1	0.000101	B		mg/L	0.00005	0.00025	09/12/24 20:15	aps
Copper, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/21/24 0:40	msp
Iron, dissolved	EPA 200.7	2	<0.12	U		mg/L	0.12	0.3	09/17/24 16:33	wtc
Lead, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.0005	09/12/24 20:15	aps
Lithium, dissolved	EPA 200.7	2	0.242			mg/L	0.016	0.08	09/17/24 16:33	wtc
Magnesium, dissolved	EPA 200.7	2	6.10			mg/L	0.4	2	09/17/24 16:33	wtc
Manganese, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/17/24 16:33	wtc
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/13/24 11:31	aew
Nickel, dissolved	EPA 200.7	2	<0.016	U		mg/L	0.016	0.08	09/17/24 16:33	wtc
Potassium, dissolved	EPA 200.7	2	2.13			mg/L	1	2	09/17/24 16:33	wtc
Selenium, dissolved	EPA 200.8	2	<0.0002	U	*	mg/L	0.0002	0.0005	09/16/24 21:23	aps
Sodium, dissolved	EPA 200.7	2	857		*	mg/L	0.4	2	09/19/24 21:47	msp
Vanadium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.05	09/17/24 16:33	wtc
Zinc, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/17/24 16:33	wtc

GCC Rio Grande
Project ID:
Sample ID: MW-21

ACZ Sample ID: ***L89982-03***
Date Sampled: *09/04/24 12:17*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	901			mg/L	2	20	09/18/24 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Total Alkalinity		1	901			mg/L	2	20	09/18/24 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			09/25/24 0:00	calc
Sum of Anions			42			meq/L			09/25/24 0:00	calc
Sum of Cations			39			meq/L			09/25/24 0:00	calc
Chloride	SM 4500-Cl E-2011	5	153			mg/L	5	10	09/06/24 11:40	jqr
Fluoride	SM 4500-F C-2011	1	1.64			mg/L	0.15	0.35	09/17/24 20:04	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		47			mg/L	0.5	10	09/25/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/25/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	09/06/24 0:41	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	09/06/24 0:41	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	2	2530			mg/L	40	80	09/10/24 9:45	lgh
Sulfate	ASTM D516-07/-11/-16	50	926		*	mg/L	50	250	09/09/24 15:02	jqr
TDS (calculated)	Calculation		2500			mg/L			09/25/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.01						09/25/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-22

ACZ Sample ID: ***L89982-04***
Date Sampled: *09/04/24 12:52*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	1	<0.07	U		mg/L	0.07	0.25	09/17/24 16:36	wtc
Arsenic, dissolved	EPA 200.8	1	0.00484			mg/L	0.0002	0.001	09/12/24 20:24	aps
Beryllium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/17/24 16:36	wtc
Boron, dissolved	EPA 200.7	1	0.386			mg/L	0.03	0.1	09/17/24 16:36	wtc
Cadmium, dissolved	EPA 200.8	1	<0.00005	U		mg/L	0.00005	0.00025	09/12/24 20:24	aps
Calcium, dissolved	EPA 200.7	1	4.04			mg/L	0.1	0.5	09/17/24 16:36	wtc
Chromium, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/17/24 16:36	wtc
Cobalt, dissolved	EPA 200.8	1	0.000143	B		mg/L	0.00005	0.00025	09/12/24 20:24	aps
Copper, dissolved	EPA 200.7	1	0.016	B		mg/L	0.01	0.05	09/21/24 0:43	msp
Iron, dissolved	EPA 200.7	1	<0.06	U		mg/L	0.06	0.15	09/17/24 16:36	wtc
Lead, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.0005	09/12/24 20:24	aps
Lithium, dissolved	EPA 200.7	1	0.0939			mg/L	0.008	0.04	09/17/24 16:36	wtc
Magnesium, dissolved	EPA 200.7	1	0.98	B		mg/L	0.2	1	09/17/24 16:36	wtc
Manganese, dissolved	EPA 200.7	1	0.010	B		mg/L	0.01	0.05	09/17/24 16:36	wtc
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/13/24 11:32	aew
Nickel, dissolved	EPA 200.7	1	<0.008	U		mg/L	0.008	0.04	09/17/24 16:36	wtc
Potassium, dissolved	EPA 200.7	1	1.38			mg/L	0.5	1	09/17/24 16:36	wtc
Selenium, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.00025	09/12/24 20:24	aps
Sodium, dissolved	EPA 200.7	1	475		*	mg/L	0.2	1	09/19/24 21:50	msp
Vanadium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.025	09/17/24 16:36	wtc
Zinc, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/17/24 16:36	wtc

GCC Rio Grande
Project ID:
Sample ID: MW-22

ACZ Sample ID: ***L89982-04***
Date Sampled: *09/04/24 12:52*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	426			mg/L	2	20	09/18/24 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Total Alkalinity		1	426			mg/L	2	20	09/18/24 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.3			%			09/25/24 0:00	calc
Sum of Anions			22			meq/L			09/25/24 0:00	calc
Sum of Cations			21			meq/L			09/25/24 0:00	calc
Chloride	SM 4500-Cl E-2011	25	346			mg/L	25	50	09/06/24 11:54	jqr
Fluoride	SM 4500-F C-2011	1	1.91			mg/L	0.15	0.35	09/17/24 20:07	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		14			mg/L	0.2	5	09/25/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		0.952			mg/L	0.02	0.1	09/25/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	1.19		*	mg/L	0.02	0.1	09/06/24 0:42	pjb
Nitrite as N	EPA 353.2	1	0.238		*	mg/L	0.01	0.05	09/06/24 0:42	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	1280			mg/L	20	40	09/10/24 9:48	lgh
Sulfate	ASTM D516-07/-11/-16	5	180		*	mg/L	5	25	09/09/24 14:37	jqr
TDS (calculated)	Calculation		1270			mg/L			09/25/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.01						09/25/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-23

ACZ Sample ID: ***L89982-05***
Date Sampled: *09/04/24 13:34*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	1	<0.07	U		mg/L	0.07	0.25	09/17/24 16:46	wtc
Arsenic, dissolved	EPA 200.8	1	0.00149			mg/L	0.0002	0.001	09/12/24 20:26	aps
Beryllium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/17/24 16:46	wtc
Boron, dissolved	EPA 200.7	1	0.165			mg/L	0.03	0.1	09/17/24 16:46	wtc
Cadmium, dissolved	EPA 200.8	1	<0.00005	U		mg/L	0.00005	0.00025	09/12/24 20:26	aps
Calcium, dissolved	EPA 200.7	1	21.7			mg/L	0.1	0.5	09/17/24 16:46	wtc
Chromium, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/17/24 16:46	wtc
Cobalt, dissolved	EPA 200.8	1	0.000487			mg/L	0.00005	0.00025	09/12/24 20:26	aps
Copper, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/21/24 0:52	msp
Iron, dissolved	EPA 200.7	1	0.066	B		mg/L	0.06	0.15	09/17/24 16:46	wtc
Lead, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.0005	09/12/24 20:26	aps
Lithium, dissolved	EPA 200.7	1	0.0789			mg/L	0.008	0.04	09/17/24 16:46	wtc
Magnesium, dissolved	EPA 200.7	1	7.34			mg/L	0.2	1	09/17/24 16:46	wtc
Manganese, dissolved	EPA 200.7	1	0.012	B		mg/L	0.01	0.05	09/17/24 16:46	wtc
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/13/24 11:33	aew
Nickel, dissolved	EPA 200.7	1	<0.008	U		mg/L	0.008	0.04	09/17/24 16:46	wtc
Potassium, dissolved	EPA 200.7	1	3.09			mg/L	0.5	1	09/17/24 16:46	wtc
Selenium, dissolved	EPA 200.8	1	0.00935			mg/L	0.0001	0.00025	09/12/24 20:26	aps
Sodium, dissolved	EPA 200.7	1	277		*	mg/L	0.2	1	09/19/24 21:59	msp
Vanadium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.025	09/17/24 16:46	wtc
Zinc, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/17/24 16:46	wtc

GCC Rio Grande
Project ID:
Sample ID: MW-23

ACZ Sample ID: ***L89982-05***
Date Sampled: *09/04/24 13:34*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	439			mg/L	2	20	09/18/24 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Total Alkalinity		1	439			mg/L	2	20	09/18/24 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			09/25/24 0:00	calc
Sum of Anions			14.0			meq/L			09/25/24 0:00	calc
Sum of Cations			14.0			meq/L			09/25/24 0:00	calc
Chloride	SM 4500-Cl E-2011	1	41.5			mg/L	1	2	09/06/24 11:31	jqr
Fluoride	SM 4500-F C-2011	1	1.08			mg/L	0.15	0.35	09/18/24 18:11	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		84			mg/L	0.2	5	09/25/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		0.750			mg/L	0.02	0.1	09/25/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.782		*	mg/L	0.02	0.1	09/06/24 0:43	pjb
Nitrite as N	EPA 353.2	1	0.032	B	*	mg/L	0.01	0.05	09/06/24 0:43	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	818			mg/L	20	40	09/10/24 9:50	lgh
Sulfate	ASTM D516-07/-11/-16	5	190		*	mg/L	5	25	09/09/24 14:37	jqr
TDS (calculated)	Calculation		810			mg/L			09/25/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.01						09/25/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: MW-3B

ACZ Sample ID: ***L89982-06***
Date Sampled: *09/04/24 12:00*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	2	<0.14	U		mg/L	0.14	0.5	09/17/24 16:49	wtc
Arsenic, dissolved	EPA 200.8	1	<0.0002	U		mg/L	0.0002	0.001	09/12/24 20:27	aps
Beryllium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/17/24 16:49	wtc
Boron, dissolved	EPA 200.7	2	0.637			mg/L	0.06	0.2	09/17/24 16:49	wtc
Cadmium, dissolved	EPA 200.8	1	<0.00005	U		mg/L	0.00005	0.00025	09/12/24 20:27	aps
Calcium, dissolved	EPA 200.7	2	8.71			mg/L	0.2	1	09/17/24 16:49	wtc
Chromium, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/17/24 16:49	wtc
Cobalt, dissolved	EPA 200.8	1	0.000103	B		mg/L	0.00005	0.00025	09/12/24 20:27	aps
Copper, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/21/24 0:55	msp
Iron, dissolved	EPA 200.7	2	<0.12	U		mg/L	0.12	0.3	09/17/24 16:49	wtc
Lead, dissolved	EPA 200.8	1	<0.0001	U		mg/L	0.0001	0.0005	09/12/24 20:27	aps
Lithium, dissolved	EPA 200.7	2	0.243			mg/L	0.016	0.08	09/17/24 16:49	wtc
Magnesium, dissolved	EPA 200.7	2	6.06			mg/L	0.4	2	09/17/24 16:49	wtc
Manganese, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.1	09/17/24 16:49	wtc
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/13/24 11:34	aew
Nickel, dissolved	EPA 200.7	2	<0.016	U		mg/L	0.016	0.08	09/17/24 16:49	wtc
Potassium, dissolved	EPA 200.7	2	2.17			mg/L	1	2	09/17/24 16:49	wtc
Selenium, dissolved	EPA 200.8	2	<0.0002	U	*	mg/L	0.0002	0.0005	09/24/24 16:21	aps
Sodium, dissolved	EPA 200.7	2	857		*	mg/L	0.4	2	09/19/24 22:03	msp
Vanadium, dissolved	EPA 200.7	2	<0.02	U		mg/L	0.02	0.05	09/17/24 16:49	wtc
Zinc, dissolved	EPA 200.7	2	<0.04	U		mg/L	0.04	0.1	09/17/24 16:49	wtc

GCC Rio Grande
Project ID:
Sample ID: MW-3B

ACZ Sample ID: ***L89982-06***
Date Sampled: *09/04/24 12:00*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	889			mg/L	2	20	09/18/24 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Total Alkalinity		1	889			mg/L	2	20	09/18/24 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.0			%			09/25/24 0:00	calc
Sum of Anions			44.0			meq/L			09/25/24 0:00	calc
Sum of Cations			39			meq/L			09/25/24 0:00	calc
Chloride	SM 4500-Cl E-2011	5	154			mg/L	5	10	09/06/24 11:41	jqr
Fluoride	SM 4500-F C-2011	1	1.67			mg/L	0.15	0.35	09/18/24 18:15	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		47			mg/L	0.5	10	09/25/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/25/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	09/06/24 0:46	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	09/06/24 0:46	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	2430			mg/L	20	40	09/10/24 9:53	lgh
Sulfate	ASTM D516-07/-11/-16	50	1040		*	mg/L	50	250	09/09/24 15:02	jqr
TDS (calculated)	Calculation		2610			mg/L			09/25/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.93						09/25/24 0:00	calc

GCC Rio Grande
Project ID:
Sample ID: METHOD BLANK

ACZ Sample ID: ***L89982-07***
Date Sampled: *09/04/24 14:00*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	EPA 200.7	1	<0.07	U		mg/L	0.07	0.25	09/17/24 16:52	wtc
Arsenic, dissolved	EPA 200.8	1	<0.0002	U		mg/L	0.0002	0.001	09/12/24 20:54	aps
Beryllium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/17/24 16:52	wtc
Boron, dissolved	EPA 200.7	1	<0.03	U		mg/L	0.03	0.1	09/17/24 16:52	wtc
Cadmium, dissolved	EPA 200.8	1	0.000055	B		mg/L	0.00005	0.00025	09/12/24 20:54	aps
Calcium, dissolved	EPA 200.7	1	<0.1	U		mg/L	0.1	0.5	09/17/24 16:52	wtc
Chromium, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/17/24 16:52	wtc
Cobalt, dissolved	EPA 200.8	1	0.000059	B		mg/L	0.00005	0.00025	09/12/24 20:54	aps
Copper, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/21/24 0:59	msp
Iron, dissolved	EPA 200.7	1	<0.06	U		mg/L	0.06	0.15	09/17/24 16:52	wtc
Lead, dissolved	EPA 200.8	1	0.00010	B		mg/L	0.0001	0.0005	09/12/24 20:54	aps
Lithium, dissolved	EPA 200.7	1	<0.008	U		mg/L	0.008	0.04	09/17/24 16:52	wtc
Magnesium, dissolved	EPA 200.7	1	<0.2	U		mg/L	0.2	1	09/17/24 16:52	wtc
Manganese, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.05	09/17/24 16:52	wtc
Mercury, dissolved	EPA 245.1	1	<0.0002	U		mg/L	0.0002	0.001	09/13/24 11:35	aew
Nickel, dissolved	EPA 200.7	1	<0.008	U		mg/L	0.008	0.04	09/17/24 16:52	wtc
Potassium, dissolved	EPA 200.7	1	<0.5	U		mg/L	0.5	1	09/17/24 16:52	wtc
Selenium, dissolved	EPA 200.8	1	<0.0001	U	*	mg/L	0.0001	0.00025	09/12/24 20:54	aps
Sodium, dissolved	EPA 200.7	1	0.35	B	*	mg/L	0.2	1	09/19/24 22:06	msp
Vanadium, dissolved	EPA 200.7	1	<0.01	U		mg/L	0.01	0.025	09/17/24 16:52	wtc
Zinc, dissolved	EPA 200.7	1	<0.02	U		mg/L	0.02	0.05	09/17/24 16:52	wtc

GCC Rio Grande
Project ID:
Sample ID: METHOD BLANK

ACZ Sample ID: ***L89982-07***
Date Sampled: *09/04/24 14:00*
Date Received: *09/05/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	8.1	B		mg/L	2	20	09/18/24 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/18/24 0:00	jck
Total Alkalinity		1	8.1	B		mg/L	2	20	09/18/24 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			09/25/24 0:00	calc
Sum of Anions			0.162	B		meq/L			09/25/24 0:00	calc
Sum of Cations			<	U		meq/L			09/25/24 0:00	calc
Chloride	SM 4500-Cl E-2011	1	<1	U		mg/L	1	2	09/06/24 11:32	jqr
Fluoride	SM 4500-F C-2011	1	<0.15	U		mg/L	0.15	0.35	09/18/24 18:20	jck
Hardness as CaCO3 (dissolved)	Calculation (SM 2340 B-2011)		<0.2	U		mg/L	0.2	5	09/25/24 0:00	calc
Nitrate as N	Calculation (NO3NO2-NO2)		<0.02	U		mg/L	0.02	0.1	09/25/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	<0.02	U	*	mg/L	0.02	0.1	09/06/24 0:48	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	09/06/24 0:48	pjb
Residue, Filterable (TDS) @180C	SM 2540 C-2011	1	<20	U	*	mg/L	20	40	09/10/24 9:55	lgh
Sulfate	ASTM D516-07/-11/-16	1	<1	U	*	mg/L	1	5	09/09/24 15:06	jqr
TDS (calculated)	Calculation		5.29			mg/L			09/25/24 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						09/25/24 0:00	calc

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste.
(5) Standard Methods for the Examination of Water and Wastewater.

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597559													
WG597559PBW	PBW	09/18/24 15:52				3.1	mg/L		-20	20			
WG597559LCSW1	LCSW	09/18/24 15:58	WC240917-1	820.0001		797.2	mg/L	97	90	110			
L89988-03DUP	DUP	09/18/24 17:19			374	357.7	mg/L				4	20	
WG597559LCSW2	LCSW	09/18/24 18:14	WC240917-1	820.0001		804.8	mg/L	98	90	110			

Aluminum, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		1.964	mg/L	98	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.15	0.15			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.250625		.268	mg/L	107	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	200.750625		199.8	mg/L	100	1	200			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	1.0025		.991	mg/L	99	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	1.0025	U	1.013	mg/L	101	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	1.0025	U	1.008	mg/L	101	85	115	0	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.979	mg/L	98	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.15	0.15			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		.983	mg/L	98	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.15	0.15			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		.971	mg/L	97	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.15	0.15			

Arsenic, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597173													
WG597173ICV	ICV	09/12/24 19:33	MS240613-12					102	90	110			
WG597173ICB	ICB	09/12/24 19:35				U	mg/L		-0.00044	0.00044			
WG597173LFB	LFB	09/12/24 19:37	MS240911-3	.0501		.04981	mg/L	99	85	115			
WG597173CCV1	CCV	09/12/24 19:55	MS240909-4	.1002		.09829	mg/L	98	90	110			
WG597173CCB1	CCB	09/12/24 19:57				U	mg/L		-0.0006	0.0006			
WG597173CCV2	CCV	09/12/24 20:17	MS240909-4	.1002		.1044	mg/L	104	90	110			
WG597173CCB2	CCB	09/12/24 20:18				U	mg/L		-0.0006	0.0006			
L89982-03AS	AS	09/12/24 20:20	MS240911-3	.0501	U	.05304	mg/L	106	70	130			
L89982-03ASD	ASD	09/12/24 20:22	MS240911-3	.0501	U	.05507	mg/L	110	70	130	4	20	
WG597173CCV3	CCV	09/12/24 20:29	MS240909-4	.1002		.10455	mg/L	104	90	110			
WG597173CCB3	CCB	09/12/24 20:31				U	mg/L		-0.0006	0.0006			
WG597194													
WG597194ICV	ICV	09/12/24 20:49	MS240613-12	.05		.05109	mg/L	102	90	110			
WG597194ICB	ICB	09/12/24 20:51				U	mg/L		-0.00044	0.00044			
WG597194LFB	LFB	09/12/24 20:52	MS240911-3	.0501		.05296	mg/L	106	85	115			
WG597194CCV1	CCV	09/12/24 21:10	MS240909-4	.1002		.10164	mg/L	101	90	110			
WG597194CCB1	CCB	09/12/24 21:12				U	mg/L		-0.0006	0.0006			
L90009-02AS	AS	09/12/24 21:14	MS240911-3	.0501	.00072	.06379	mg/L	126	70	130			
L90009-02ASD	ASD	09/12/24 21:16	MS240911-3	.0501	.00072	.06245	mg/L	123	70	130	2	20	
WG597194CCV2	CCV	09/12/24 21:32	MS240909-4	.1002		.09934	mg/L	99	90	110			
WG597194CCB2	CCB	09/12/24 21:34				U	mg/L		-0.0006	0.0006			
WG597194CCV3	CCV	09/12/24 21:45	MS240909-4	.1002		.09876	mg/L	99	90	110			
WG597194CCB3	CCB	09/12/24 21:47				U	mg/L		-0.0006	0.0006			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beryllium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		1.899	mg/L	95	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.03	0.03			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.0501		.048	mg/L	96	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	.1002		.096	mg/L	96	80	120			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	.501		.485	mg/L	97	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	.501	U	.473	mg/L	94	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	.501	U	.474	mg/L	95	85	115	0	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.926	mg/L	93	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.03	0.03			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		.933	mg/L	93	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.03	0.03			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		.932	mg/L	93	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.03	0.03			

Boron, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		2.012	mg/L	101	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.09	0.09			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.1001		.102	mg/L	102	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	.1001		.093	mg/L	93	80	120			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	.5005		.502	mg/L	100	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	.5005	.386	.866	mg/L	96	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	.5005	.386	.863	mg/L	95	85	115	0	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.978	mg/L	98	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.09	0.09			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		.978	mg/L	98	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.09	0.09			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		.966	mg/L	97	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.09	0.09			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597173													
WG597173ICV	ICV	09/12/24 19:33	MS240613-12	.05		.051914	mg/L	104	90	110			
WG597173ICB	ICB	09/12/24 19:35				.000051	mg/L		-0.00011	0.00011			
WG597173LFB	LFB	09/12/24 19:37	MS240911-3	.05005		.050913	mg/L	102	85	115			
WG597173CCV1	CCV	09/12/24 19:55	MS240909-4	.1001		.102392	mg/L	102	90	110			
WG597173CCB1	CCB	09/12/24 19:57				U	mg/L		-0.00015	0.00015			
WG597173CCV2	CCV	09/12/24 20:17	MS240909-4	.1001		.098664	mg/L	99	90	110			
WG597173CCB2	CCB	09/12/24 20:18				U	mg/L		-0.00015	0.00015			
L89982-03AS	AS	09/12/24 20:20	MS240911-3	.05005	U	.048873	mg/L	98	70	130			
L89982-03ASD	ASD	09/12/24 20:22	MS240911-3	.05005	U	.04911	mg/L	98	70	130	0	20	
WG597173CCV3	CCV	09/12/24 20:29	MS240909-4	.1001		.097776	mg/L	98	90	110			
WG597173CCB3	CCB	09/12/24 20:31				U	mg/L		-0.00015	0.00015			
WG597194													
WG597194ICV	ICV	09/12/24 20:49	MS240613-12	.05		.051025	mg/L	102	90	110			
WG597194ICB	ICB	09/12/24 20:51				.000067	mg/L		-0.00011	0.00011			
WG597194LFB	LFB	09/12/24 20:52	MS240911-3	.05005		.053069	mg/L	106	85	115			
WG597194CCV1	CCV	09/12/24 21:10	MS240909-4	.1001		.103585	mg/L	103	90	110			
WG597194CCB1	CCB	09/12/24 21:12				U	mg/L		-0.00015	0.00015			
L90009-02AS	AS	09/12/24 21:14	MS240911-3	.05005	.0001	.052744	mg/L	105	70	130			
L90009-02ASD	ASD	09/12/24 21:16	MS240911-3	.05005	.0001	.052348	mg/L	104	70	130	1	20	
WG597194CCV2	CCV	09/12/24 21:32	MS240909-4	.1001		.102915	mg/L	103	90	110			
WG597194CCB2	CCB	09/12/24 21:34				U	mg/L		-0.00015	0.00015			
WG597194CCV3	CCV	09/12/24 21:45	MS240909-4	.1001		.101793	mg/L	102	90	110			
WG597194CCB3	CCB	09/12/24 21:47				U	mg/L		-0.00015	0.00015			
WG597333													
WG597333ICV	ICV	09/16/24 20:28	MS240912-7	.05		.050363	mg/L	101	90	110			
WG597333ICB	ICB	09/16/24 20:30				U	mg/L		-0.00011	0.00011			
WG597333LFB	LFB	09/16/24 20:32	MS240911-3	.05005		.049521	mg/L	99	85	115			
WG597333CCV1	CCV	09/16/24 20:50	MS240909-4	.1001		.096742	mg/L	97	90	110			
WG597333CCB1	CCB	09/16/24 20:52				U	mg/L		-0.00015	0.00015			
WG597333CCV2	CCV	09/16/24 21:12	MS240909-4	.1001		.09984	mg/L	100	90	110			
WG597333CCB2	CCB	09/16/24 21:14				U	mg/L		-0.00015	0.00015			
L89970-16AS	AS	09/16/24 21:15	MS240911-3	1.001	.178	1.230219	mg/L	105	70	130			
L89970-16ASD	ASD	09/16/24 21:17	MS240911-3	1.001	.178	1.183927	mg/L	100	70	130	4	20	
WG597333CCV3	CCV	09/16/24 21:24	MS240909-4	.1001		.097649	mg/L	98	90	110			
WG597333CCB3	CCB	09/16/24 21:26				U	mg/L		-0.00015	0.00015			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Calcium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	100		99.46	mg/L	99	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.3	0.3			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.5025		.47	mg/L	94	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	201.5025		203.7	mg/L	101	1	200			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	67.92919		68.34	mg/L	101	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	67.92919	4.04	72.15	mg/L	100	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	67.92919	4.04	72.46	mg/L	101	85	115	0	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	50		50.82	mg/L	102	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.3	0.3			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	50		51.5	mg/L	103	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.3	0.3			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	50		51.15	mg/L	102	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.3	0.3			

Chloride SM 4500-Cl E-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596736													
WG596736ICV	ICV	09/06/24 10:14	WI231211-1	39.96		38.67	mg/L	97	90	110			
WG596736ICB	ICB	09/06/24 10:14				U	mg/L						
WG596736CCV1	CCV	09/06/24 11:19	WI240606-12	25		24.45	mg/L	98	90	110			
WG596736CCB1	CCB	09/06/24 11:19				U	mg/L						
WG596736PQV	PQV	09/06/24 11:20	WI240904-2	2		1.94	mg/L	97	50	150			
WG596736LFB	LFB	09/06/24 11:20	WI240820-1	20		20.36	mg/L	102	90	110			
WG596736CCV2	CCV	09/06/24 11:23	WI240606-12	25		24.81	mg/L	99	90	110			
WG596736CCB2	CCB	09/06/24 11:23				U	mg/L						
WG596736CCV3	CCV	09/06/24 11:30	WI240606-12	25		25.02	mg/L	100	90	110			
WG596736CCB3	CCB	09/06/24 11:31				U	mg/L						
L89982-07AS	AS	09/06/24 11:32	WI240820-1	20	U	20.25	mg/L	101	90	110			
L89982-07ASD	ASD	09/06/24 11:38	WI240820-1	20	U	20.01	mg/L	100	90	110	1	20	
WG596736CCV4	CCV	09/06/24 11:38	WI240606-12	25		24.73	mg/L	99	90	110			
WG596736CCB4	CCB	09/06/24 11:38				U	mg/L						
WG596736CCV5	CCV	09/06/24 11:39	WI240606-12	25		24.77	mg/L	99	90	110			
WG596736CCB5	CCB	09/06/24 11:39				U	mg/L						
WG596736CCV6	CCV	09/06/24 11:40	WI240606-12	25		24.88	mg/L	100	90	110			
WG596736CCB6	CCB	09/06/24 11:40				U	mg/L						
WG596736CCV7	CCV	09/06/24 11:41	WI240606-12	25		24.91	mg/L	100	90	110			
WG596736CCB7	CCB	09/06/24 11:41				U	mg/L						
WG596736CCV8	CCV	09/06/24 11:52	WI240606-12	25		24.51	mg/L	98	90	110			
WG596736CCB8	CCB	09/06/24 11:53				U	mg/L						
WG596736CCV9	CCV	09/06/24 11:54	WI240606-12	25		24.75	mg/L	99	90	110			
WG596736CCB9	CCB	09/06/24 11:54				U	mg/L						

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		1.937	mg/L	97	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.06	0.06			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.05005		.049	mg/L	98	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	.1001		.08	mg/L	80	80	120			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	.5005		.498	mg/L	100	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	.5005	U	.482	mg/L	96	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	.5005	U	.487	mg/L	97	85	115	1	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.974	mg/L	97	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.06	0.06			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		.98	mg/L	98	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.06	0.06			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		.974	mg/L	97	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.06	0.06			

Cobalt, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597173													
WG597173ICV	ICV	09/12/24 19:33	MS240613-12	.05		.051459	mg/L	103	90	110			
WG597173ICB	ICB	09/12/24 19:35				.000053	mg/L		-0.00011	0.00011			
WG597173LFB	LFB	09/12/24 19:37	MS240911-3	.05005		.050344	mg/L	101	85	115			
WG597173CCV1	CCV	09/12/24 19:55	MS240909-4	.1001		.100016	mg/L	100	90	110			
WG597173CCB1	CCB	09/12/24 19:57				U	mg/L		-0.00015	0.00015			
WG597173CCV2	CCV	09/12/24 20:17	MS240909-4	.1001		.106021	mg/L	106	90	110			
WG597173CCB2	CCB	09/12/24 20:18				U	mg/L		-0.00015	0.00015			
L89982-03AS	AS	09/12/24 20:20	MS240911-3	.05005	.000101	.046032	mg/L	92	70	130			
L89982-03ASD	ASD	09/12/24 20:22	MS240911-3	.05005	.000101	.046114	mg/L	92	70	130	0	20	
WG597173CCV3	CCV	09/12/24 20:29	MS240909-4	.1001		.10599	mg/L	106	90	110			
WG597173CCB3	CCB	09/12/24 20:31				U	mg/L		-0.00015	0.00015			
WG597194													
WG597194ICV	ICV	09/12/24 20:49	MS240613-12	.05		.050078	mg/L	100	90	110			
WG597194ICB	ICB	09/12/24 20:51				.000066	mg/L		-0.00011	0.00011			
WG597194LFB	LFB	09/12/24 20:52	MS240911-3	.05005		.051775	mg/L	103	85	115			
WG597194CCV1	CCV	09/12/24 21:10	MS240909-4	.1001		.099577	mg/L	99	90	110			
WG597194CCB1	CCB	09/12/24 21:12				U	mg/L		-0.00015	0.00015			
L90009-02AS	AS	09/12/24 21:14	MS240911-3	.05005	.00062	.041974	mg/L	83	70	130			
L90009-02ASD	ASD	09/12/24 21:16	MS240911-3	.05005	.00062	.041222	mg/L	81	70	130	2	20	
WG597194CCV2	CCV	09/12/24 21:32	MS240909-4	.1001		.098409	mg/L	98	90	110			
WG597194CCB2	CCB	09/12/24 21:34				U	mg/L		-0.00015	0.00015			
WG597194CCV3	CCV	09/12/24 21:45	MS240909-4	.1001		.09911	mg/L	99	90	110			
WG597194CCB3	CCB	09/12/24 21:47				.000057	mg/L		-0.00015	0.00015			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Copper, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597697													
WG597697ICV	ICV	09/21/24 0:12	II240912-1	2		1.961	mg/L	98	95	105			
WG597697ICB	ICB	09/21/24 0:18				U	mg/L		-0.03	0.03			
WG597697PQV	PQV	09/21/24 0:21	II240919-2	.05005		.051	mg/L	102	70	130			
WG597697SIC	SIC	09/21/24 0:24	II240903-3	.1001		.108	mg/L	108	80	120			
WG597697LFB	LFB	09/21/24 0:31	II240910-5	.5005		.523	mg/L	104	85	115			
L89982-04AS	AS	09/21/24 0:46	II240910-5	.5005	.016	.51	mg/L	99	85	115			
L89982-04ASD	ASD	09/21/24 0:49	II240910-5	.5005	.016	.538	mg/L	104	85	115	5	20	
WG597697CCV1	CCV	09/21/24 1:02	II240911-1	1		.993	mg/L	99	90	110			
WG597697CCB1	CCB	09/21/24 1:05				U	mg/L		-0.03	0.03			
WG597697CCV2	CCV	09/21/24 1:38	II240911-1	1		1.004	mg/L	100	90	110			
WG597697CCB2	CCB	09/21/24 1:41				U	mg/L		-0.03	0.03			
WG597697CCV3	CCV	09/21/24 1:59	II240911-1	1		.981	mg/L	98	90	110			
WG597697CCB3	CCB	09/21/24 2:02				U	mg/L		-0.03	0.03			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride SM 4500-F C-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597415													
WG597415ICV	ICV	09/17/24 12:04	WC240914-1	2		2.13	mg/L	107	90	110			
WG597415ICB	ICB	09/17/24 12:10				U	mg/L		-0.3	0.3			
WG597459													
WG597459ICV	ICV	09/17/24 16:32	WC240914-1	2		2.07	mg/L	104	90	110			
WG597459ICB	ICB	09/17/24 16:40				U	mg/L		-0.3	0.3			
WG597459PQV	PQV	09/17/24 16:43	WC240802-2	.35		.35	mg/L	100	50	150			
WG597459LFB1	LFB	09/17/24 16:47	WC240411-1	5		5.05	mg/L	101	90	110			
WG597459CCV1	CCV	09/17/24 17:34	WC240914-1	2		1.909	mg/L	95	90	110			
WG597459CCB1	CCB	09/17/24 17:41				U	mg/L		-0.3	0.3			
WG597459CCV2	CCV	09/17/24 18:30	WC240914-1	2		2.03	mg/L	102	90	110			
WG597459CCB2	CCB	09/17/24 18:38				U	mg/L		-0.3	0.3			
WG597459LFB2	LFB	09/17/24 19:08	WC240411-1	5		5	mg/L	100	90	110			
L89921-03AS	AS	09/17/24 19:17	WC240411-1	5	.29	5.33	mg/L	101	90	110			
L89921-03ASD	ASD	09/17/24 19:20	WC240411-1	5	.29	5.3	mg/L	100	90	110	1	20	
WG597459CCV3	CCV	09/17/24 19:27	WC240914-1	2		2.02	mg/L	101	90	110			
WG597459CCB3	CCB	09/17/24 19:35				U	mg/L		-0.3	0.3			
L89982-04AS	AS	09/17/24 20:11	WC240411-1	5	1.91	6.98	mg/L	101	90	110			
WG597459CCV4	CCV	09/17/24 20:14	WC240914-1	2		2.049	mg/L	102	90	110			
WG597459CCB4	CCB	09/17/24 20:23				U	mg/L		-0.3	0.3			
L89982-04ASD	ASD	09/17/24 20:28	WC240411-1	5	1.91	7.05	mg/L	103	90	110	1	20	
WG597459CCV5	CCV	09/17/24 21:05	WC240914-1	2		2.089	mg/L	104	90	110			
WG597459CCB5	CCB	09/17/24 21:13				U	mg/L		-0.3	0.3			
WG597564													
WG597564ICV	ICV	09/18/24 17:29	WC240914-1	2		2.11	mg/L	106	90	110			
WG597564ICB	ICB	09/18/24 17:34				.17	mg/L		-0.3	0.3			
WG597564PQV	PQV	09/18/24 17:37	WC240802-2	.35		.41	mg/L	117	50	150			
WG597564LFB1	LFB	09/18/24 17:41	WC240411-1	5		5	mg/L	100	90	110			
L78333-86AS	AS	09/18/24 17:50	WC240411-1	5	.36	4.93	mg/L	91	90	110			
L78333-86ASD	ASD	09/18/24 17:53	WC240411-1	5	.36	5.14	mg/L	96	90	110	4	20	
WG597564CCV1	CCV	09/18/24 18:23	WC240914-1	2		2.112	mg/L	106	90	110			
WG597564CCB1	CCB	09/18/24 18:27				U	mg/L		-0.3	0.3			
WG597564CCV2	CCV	09/18/24 19:33	WC240914-1	2		2.112	mg/L	106	90	110			
WG597564CCB2	CCB	09/18/24 19:38				.18	mg/L		-0.3	0.3			
WG597564LFB2	LFB	09/18/24 20:11	WC240411-1	5		5	mg/L	100	90	110			
WG597564CCV3	CCV	09/18/24 20:32	WC240914-1	2		2.102	mg/L	105	90	110			
WG597564CCB3	CCB	09/18/24 20:35				U	mg/L		-0.3	0.3			
WG597564CCV4	CCV	09/18/24 21:22	WC240914-1	2		2.033	mg/L	102	90	110			
WG597564CCB4	CCB	09/18/24 21:26				U	mg/L		-0.3	0.3			
WG597564CCV5	CCV	09/18/24 22:10	WC240914-1	2		2.132	mg/L	107	90	110			
WG597564CCB5	CCB	09/18/24 22:14				U	mg/L		-0.3	0.3			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		1.945	mg/L	97	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.18	0.18			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.15045		.157	mg/L	104	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	200.75045		199.1	mg/L	99	1	200			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	1.003		1.003	mg/L	100	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	1.003	U	.985	mg/L	98	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	1.003	U	.993	mg/L	99	85	115	1	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.975	mg/L	98	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.18	0.18			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		1.001	mg/L	100	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.18	0.18			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		.986	mg/L	99	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.18	0.18			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597173													
WG597173ICV	ICV	09/12/24 19:33	MS240613-12	.05		.0527	mg/L	105	90	110			
WG597173ICB	ICB	09/12/24 19:35				U	mg/L		-0.00022	0.00022			
WG597173LFB	LFB	09/12/24 19:37	MS240911-3	.05005		.05082	mg/L	102	85	115			
WG597173CCV1	CCV	09/12/24 19:55	MS240909-4	.25025		.25256	mg/L	101	90	110			
WG597173CCB1	CCB	09/12/24 19:57				U	mg/L		-0.0003	0.0003			
WG597173CCV2	CCV	09/12/24 20:17	MS240909-4	.25025		.25545	mg/L	102	90	110			
WG597173CCB2	CCB	09/12/24 20:18				U	mg/L		-0.0003	0.0003			
L89982-03AS	AS	09/12/24 20:20	MS240911-3	.05005	U	.05638	mg/L	113	70	130			
L89982-03ASD	ASD	09/12/24 20:22	MS240911-3	.05005	U	.05664	mg/L	113	70	130	0	20	
WG597173CCV3	CCV	09/12/24 20:29	MS240909-4	.25025		.25486	mg/L	102	90	110			
WG597173CCB3	CCB	09/12/24 20:31				U	mg/L		-0.0003	0.0003			
WG597194													
WG597194ICV	ICV	09/12/24 20:49	MS240613-12	.05		.05177	mg/L	104	90	110			
WG597194ICB	ICB	09/12/24 20:51				.00013	mg/L		-0.00022	0.00022			
WG597194LFB	LFB	09/12/24 20:52	MS240911-3	.05005		.05296	mg/L	106	85	115			
WG597194CCV1	CCV	09/12/24 21:10	MS240909-4	.25025		.25014	mg/L	100	90	110			
WG597194CCB1	CCB	09/12/24 21:12				U	mg/L		-0.0003	0.0003			
L90009-02AS	AS	09/12/24 21:14	MS240911-3	.05005	U	.05463	mg/L	109	70	130			
L90009-02ASD	ASD	09/12/24 21:16	MS240911-3	.05005	U	.0532	mg/L	106	70	130	3	20	
WG597194CCV2	CCV	09/12/24 21:32	MS240909-4	.25025		.24768	mg/L	99	90	110			
WG597194CCB2	CCB	09/12/24 21:34				U	mg/L		-0.0003	0.0003			
WG597194CCV3	CCV	09/12/24 21:45	MS240909-4	.25025		.24399	mg/L	97	90	110			
WG597194CCB3	CCB	09/12/24 21:47				.00012	mg/L		-0.0003	0.0003			
WG597333													
WG597333ICV	ICV	09/16/24 20:28	MS240912-7	.05		.05187	mg/L	104	90	110			
WG597333ICB	ICB	09/16/24 20:30				U	mg/L		-0.00022	0.00022			
WG597333LFB	LFB	09/16/24 20:32	MS240911-3	.05005		.05217	mg/L	104	85	115			
WG597333CCV1	CCV	09/16/24 20:50	MS240909-4	.25025		.24306	mg/L	97	90	110			
WG597333CCB1	CCB	09/16/24 20:52				U	mg/L		-0.0003	0.0003			
WG597333CCV2	CCV	09/16/24 21:12	MS240909-4	.25025		.24664	mg/L	99	90	110			
WG597333CCB2	CCB	09/16/24 21:14				U	mg/L		-0.0003	0.0003			
L89970-16AS	AS	09/16/24 21:15	MS240911-3	1.001	.0614	1.11516	mg/L	105	70	130			
L89970-16ASD	ASD	09/16/24 21:17	MS240911-3	1.001	.0614	1.09809	mg/L	104	70	130	2	20	
WG597333CCV3	CCV	09/16/24 21:24	MS240909-4	.25025		.24457	mg/L	98	90	110			
WG597333CCB3	CCB	09/16/24 21:26				U	mg/L		-0.0003	0.0003			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lithium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		1.9178	mg/L	96	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.024	0.024			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.04004		.0466	mg/L	116	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	.1001		.0944	mg/L	94	80	120			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	1.001		.9636	mg/L	96	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	1.001	.0939	1.034	mg/L	94	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	1.001	.0939	1.039	mg/L	94	85	115	0	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.9945	mg/L	99	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.024	0.024			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		1.003	mg/L	100	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.024	0.024			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		1.002	mg/L	100	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.024	0.024			

Magnesium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	100		96	mg/L	96	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.6	0.6			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	1.006		1.1	mg/L	109	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	202.746		201.6	mg/L	99	1	200			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	50.59457		49.98	mg/L	99	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	50.59457	.98	50.71	mg/L	98	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	50.59457	.98	50.73	mg/L	98	85	115	0	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	50		49.42	mg/L	99	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.6	0.6			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	50		50.1	mg/L	100	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.6	0.6			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	50		49.61	mg/L	99	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.6	0.6			

Manganese, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		1.908	mg/L	95	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.03	0.03			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.0498		.045	mg/L	90	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	50.4498		47.93	mg/L	95	1	200			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	.504		.483	mg/L	96	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	.504	.01	.487	mg/L	95	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	.504	.01	.487	mg/L	95	85	115	0	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.933	mg/L	93	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.03	0.03			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		.943	mg/L	94	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.03	0.03			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		.939	mg/L	94	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.03	0.03			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved EPA 245.1

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597083													
WG597083ICV	ICV	09/13/24 11:10	HG240819-3	.00501		.00516	mg/L	103	95	105			
WG597083ICB	ICB	09/13/24 11:10				U	mg/L		-0.0002	0.0002			
WG597083ICV1	ICV	09/13/24 11:13	HG240819-3	.00501		.00519	mg/L	104	95	105			
WG597083ICB1	ICB	09/13/24 11:14				U	mg/L		-0.0002	0.0002			
WG597083PQV	PQV	09/13/24 11:15	HG240909-2	.001001		.00102	mg/L	102	70	130			
WG597083LRB	LRB	09/13/24 11:16				U	mg/L		-0.00044	0.00044			
WG597083LFB	LFB	09/13/24 11:17	HG240909-3	.002002		.00201	mg/L	100	85	115			
L89958-01LFM	LFM	09/13/24 11:23	HG240909-3	.002002	U	.00203	mg/L	101	85	115			
L89958-01LFMD	LFMD	09/13/24 11:24	HG240909-3	.002002	U	.00197	mg/L	98	85	115	3	20	
WG597083CCV3	CCV	09/13/24 11:25	HG240819-3	.00501		.00505	mg/L	101	90	110			
WG597083CCB3	CCB	09/13/24 11:25				U	mg/L		-0.0002	0.0002			
L89982-02LFM	LFM	09/13/24 11:29	HG240909-2	.001001	U	.00111	mg/L	111	85	115			
L89982-02LFMD	LFMD	09/13/24 11:30	HG240909-2	.001001	U	.00103	mg/L	103	85	115	7	20	
WG597083CCV4	CCV	09/13/24 11:36	HG240819-3	.00501		.00493	mg/L	98	90	110			
WG597083CCB4	CCB	09/13/24 11:37				U	mg/L		-0.0002	0.0002			
WG597083CCV5	CCV	09/13/24 11:44	HG240819-3	.00501		.00503	mg/L	100	90	110			
WG597083CCB5	CCB	09/13/24 11:45				U	mg/L		-0.0002	0.0002			

Nickel, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2.004		2.037	mg/L	102	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.024	0.024			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.04004		.0431	mg/L	108	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	.10016		.0989	mg/L	99	80	120			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	.5005		.5287	mg/L	106	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	.5005	U	.5153	mg/L	103	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	.5005	U	.525	mg/L	105	85	115	2	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1.002		1.016	mg/L	101	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.024	0.024			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1.002		1.021	mg/L	102	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.024	0.024			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1.002		1.012	mg/L	101	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.024	0.024			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N EPA 353.2

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596701													
WG596701ICV	ICV	09/06/24 0:18	WI240725-5	2.416		2.52	mg/L	104	90	110			
WG596701ICB	ICB	09/06/24 0:19				U	mg/L		-0.02	0.02			
WG596701LFB	LFB	09/06/24 0:23	WI240828-3	2		2.004	mg/L	100	90	110			
L89936-01AS	AS	09/06/24 0:25	WI240828-3	2	.631	2.592	mg/L	98	90	110			
L89936-02DUP	DUP	09/06/24 0:28			.028	.029	mg/L				4	20	RA
WG596701CCV1	CCV	09/06/24 0:33	WI240904-7	2		1.996	mg/L	100	90	110			
WG596701CCB1	CCB	09/06/24 0:36				U	mg/L		-0.02	0.02			
L89982-05AS	AS	09/06/24 0:44	WI240828-3	2	.782	2.627	mg/L	92	90	110			
L89982-06DUP	DUP	09/06/24 0:47			U	U	mg/L				0	20	RA
WG596701CCV2	CCV	09/06/24 0:51	WI240904-7	2		1.996	mg/L	100	90	110			
WG596701CCB2	CCB	09/06/24 0:54				U	mg/L		-0.02	0.02			

Nitrite as N EPA 353.2

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596701													
WG596701ICV	ICV	09/06/24 0:18	WI240725-5	.609		.628	mg/L	103	90	110			
WG596701ICB	ICB	09/06/24 0:19				U	mg/L		-0.01	0.01			
WG596701LFB	LFB	09/06/24 0:23	WI240828-3	1		1.017	mg/L	102	90	110			
L89936-01AS	AS	09/06/24 0:25	WI240828-3	1	U	1.002	mg/L	100	90	110			
L89936-02DUP	DUP	09/06/24 0:28			U	U	mg/L				0	20	RA
WG596701CCV1	CCV	09/06/24 0:33	WI240904-7	1		1.006	mg/L	101	90	110			
WG596701CCB1	CCB	09/06/24 0:36				U	mg/L		-0.01	0.01			
L89982-05AS	AS	09/06/24 0:44	WI240828-3	1	.032	.934	mg/L	90	90	110			
L89982-06DUP	DUP	09/06/24 0:47			U	U	mg/L				0	20	RA
WG596701CCV2	CCV	09/06/24 0:51	WI240904-7	1		1.025	mg/L	103	90	110			
WG596701CCB2	CCB	09/06/24 0:54				U	mg/L		-0.01	0.01			

Potassium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	20		20.08	mg/L	100	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-1.5	1.5			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	1.002		.95	mg/L	95	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	1.002		.92	mg/L	92	80	120			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	100.2181		101.6	mg/L	101	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	100.2181	1.38	101.5	mg/L	100	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	100.2181	1.38	101.6	mg/L	100	85	115	0	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	10		9.9	mg/L	99	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-1.5	1.5			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	10		9.92	mg/L	99	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-1.5	1.5			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	10		9.85	mg/L	99	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-1.5	1.5			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Filterable (TDS) @180C SM 2540 C-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596952													
WG596952PBW	PBW	09/10/24 9:35				U	mg/L		-20	20			
WG596952LCSW	LCSW	09/10/24 9:37	PCN627254	1000		998	mg/L	100	80	120			
L90023-06DUP	DUP	09/10/24 10:06			3520	3566	mg/L				1	10	

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Selenium, dissolved EPA 200.8

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597173													
WG597173ICV	ICV	09/12/24 19:33	MS240613-12	.05		.05311	mg/L	106	90	110			
WG597173ICB	ICB	09/12/24 19:35				.00019	mg/L		-0.00022	0.00022			
WG597173LFB	LFB	09/12/24 19:37	MS240911-3	.05005		.05026	mg/L	100	85	115			
WG597173CCV1	CCV	09/12/24 19:55	MS240909-4	.1001		.10189	mg/L	102	90	110			
WG597173CCB1	CCB	09/12/24 19:57				.00021	mg/L		-0.0003	0.0003			
WG597173CCV2	CCV	09/12/24 20:17	MS240909-4	.1001		.10403	mg/L	104	90	110			
WG597173CCB2	CCB	09/12/24 20:18				.00013	mg/L		-0.0003	0.0003			
L89982-03AS	AS	09/12/24 20:20	MS240911-3	.05005		.05532	mg/L	111	70	130			
L89982-03ASD	ASD	09/12/24 20:22	MS240911-3	.05005		.05541	mg/L	111	70	130	0	20	
WG597173CCV3	CCV	09/12/24 20:29	MS240909-4	.1001		.10304	mg/L	103	90	110			
WG597173CCB3	CCB	09/12/24 20:31				.00014	mg/L		-0.0003	0.0003			
WG597194													
WG597194ICV	ICV	09/12/24 20:49	MS240613-12	.05		.04997	mg/L	100	90	110			
WG597194ICB	ICB	09/12/24 20:51				.00014	mg/L		-0.00022	0.00022			
WG597194LFB	LFB	09/12/24 20:52	MS240911-3	.05005		.05133	mg/L	103	85	115			
WG597194CCV1	CCV	09/12/24 21:10	MS240909-4	.1001		.10174	mg/L	102	90	110			
WG597194CCB1	CCB	09/12/24 21:12				U	mg/L		-0.0003	0.0003			
L90009-02AS	AS	09/12/24 21:14	MS240911-3	.05005	.00058	.07064	mg/L	140	70	130			M1
L90009-02ASD	ASD	09/12/24 21:16	MS240911-3	.05005	.00058	.06957	mg/L	138	70	130	2	20	M1
WG597194CCV2	CCV	09/12/24 21:32	MS240909-4	.1001		.10174	mg/L	102	90	110			
WG597194CCB2	CCB	09/12/24 21:34				U	mg/L		-0.0003	0.0003			
WG597194CCV3	CCV	09/12/24 21:45	MS240909-4	.1001		.09794	mg/L	98	90	110			
WG597194CCB3	CCB	09/12/24 21:47				U	mg/L		-0.0003	0.0003			
WG597333													
WG597333ICV	ICV	09/16/24 20:28	MS240912-7	.05		.04974	mg/L	99	90	110			
WG597333ICB	ICB	09/16/24 20:30				U	mg/L		-0.00022	0.00022			
WG597333LFB	LFB	09/16/24 20:32	MS240911-3	.05005		.04975	mg/L	99	85	115			
WG597333CCV1	CCV	09/16/24 20:50	MS240909-4	.1001		.09864	mg/L	99	90	110			
WG597333CCB1	CCB	09/16/24 20:52				U	mg/L		-0.0003	0.0003			
WG597333CCV2	CCV	09/16/24 21:12	MS240909-4	.1001		.09859	mg/L	98	90	110			
WG597333CCB2	CCB	09/16/24 21:14				U	mg/L		-0.0003	0.0003			
L89970-16AS	AS	09/16/24 21:15	MS240911-3	1.001	.00349	1.02412	mg/L	102	70	130			
L89970-16ASD	ASD	09/16/24 21:17	MS240911-3	1.001	.00349	1.00635	mg/L	100	70	130	2	20	
WG597333CCV3	CCV	09/16/24 21:24	MS240909-4	.1001		.09797	mg/L	98	90	110			
WG597333CCB3	CCB	09/16/24 21:26				U	mg/L		-0.0003	0.0003			
WG597912													
WG597912ICV	ICV	09/24/24 16:07	MS240912-7	.05		.05166	mg/L	103	90	110			
WG597912ICB	ICB	09/24/24 16:08				U	mg/L		-0.00022	0.00022			
WG597912LFB	LFB	09/24/24 16:10	MS240911-3	.05005		.05317	mg/L	106	85	115			
WG597912CCV1	CCV	09/24/24 16:26	MS240909-4	.1001		.10001	mg/L	100	90	110			
WG597912CCB1	CCB	09/24/24 16:28				U	mg/L		-0.0003	0.0003			
L90039-03AS	AS	09/24/24 16:32	MS240911-3	.05005	.00258	.06005	mg/L	115	70	130			
L90039-03ASD	ASD	09/24/24 16:34	MS240911-3	.05005	.00258	.05807	mg/L	111	70	130	3	20	
WG597912CCV2	CCV	09/24/24 16:48	MS240909-4	.1001		.09867	mg/L	99	90	110			
WG597912CCB2	CCB	09/24/24 16:50				U	mg/L		-0.0003	0.0003			
WG597912CCV3	CCV	09/24/24 17:03	MS240909-4	.1001		.09986	mg/L	100	90	110			
WG597912CCB3	CCB	09/24/24 17:05				U	mg/L		-0.0003	0.0003			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sodium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597511													
WG597511ICV	ICV	09/19/24 21:18	II240912-1	100		99.41	mg/L	99	95	105			
WG597511ICB	ICB	09/19/24 21:24				U	mg/L		-0.6	0.6			
WG597511PQV	PQV	09/19/24 21:27	II240826-4	1.005		1.04	mg/L	103	70	130			
WG597511SIC	SIC	09/19/24 21:30	II240903-3	1.005		1.14	mg/L	113	80	120			
WG597511LFB	LFB	09/19/24 21:37	II240910-5	100.4877		99.93	mg/L	99	85	115			
L89982-04AS	AS	09/19/24 21:53	II240910-5	100.4877	475	555	mg/L	80	85	115			M3
L89982-04ASD	ASD	09/19/24 21:56	II240910-5	100.4877	475	562.7	mg/L	87	85	115	1	20	
WG597511CCV1	CCV	09/19/24 22:09	II240911-1	50		49.37	mg/L	99	90	110			
WG597511CCB1	CCB	09/19/24 22:12				U	mg/L		-0.6	0.6			
WG597511CCV2	CCV	09/19/24 22:47	II240911-1	50		49.57	mg/L	99	90	110			
WG597511CCB2	CCB	09/19/24 22:50				U	mg/L		-0.6	0.6			
WG597511CCV3	CCV	09/19/24 23:09	II240911-1	50		49.45	mg/L	99	90	110			
WG597511CCB3	CCB	09/19/24 23:12				U	mg/L		-0.6	0.6			

Sulfate ASTM D516-07/-11/-16

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596890													
WG596890ICV	ICV	09/09/24 8:49	WI240826-5	20.02		21.6	mg/L	108	85	115			
WG596890ICB	ICB	09/09/24 8:49				U	mg/L		-2.5	2.5			
WG596890CCV1	CCV	09/09/24 14:22	WI240903-5	25		28.4	mg/L	114	85	115			
WG596890CCB1	CCB	09/09/24 14:22				U	mg/L		-2.5	2.5			
WG596890LFB	LFB	09/09/24 14:22	WI240618-2	10		11.1	mg/L	111	85	115			
WG596890CCV2	CCV	09/09/24 14:26	WI240903-5	25		26.4	mg/L	106	85	115			
WG596890CCB2	CCB	09/09/24 14:26				U	mg/L		-2.5	2.5			
WG596890CCV4	CCV	09/09/24 14:34	WI240903-5	25		26.3	mg/L	105	85	115			
WG596890CCB4	CCB	09/09/24 14:34				U	mg/L		-2.5	2.5			
WG596890CCV5	CCV	09/09/24 14:39	WI240903-5	25		26.3	mg/L	105	85	115			
WG596890CCB5	CCB	09/09/24 14:39				U	mg/L		-2.5	2.5			
L90043-04AS	AS	09/09/24 14:41	SO4TURB5X	10	177	176.8	mg/L	-2	85	115			M3
WG596890CCV6	CCV	09/09/24 14:41	WI240903-5	25		25.9	mg/L	104	85	115			
WG596890CCB6	CCB	09/09/24 14:42				U	mg/L		-2.5	2.5			
L90043-04ASD	ASD	09/09/24 14:47	SO4TURB5X	10	177	189.9	mg/L	129	85	115	7	20	M3
WG596890CCV7	CCV	09/09/24 14:47	WI240903-5	25		27.3	mg/L	109	85	115			
WG596890CCB7	CCB	09/09/24 14:47				U	mg/L		-2.5	2.5			
WG596890CCV8	CCV	09/09/24 14:57	WI240903-5	25		27.3	mg/L	109	85	115			
WG596890CCB8	CCB	09/09/24 14:57				U	mg/L		-2.5	2.5			
L86824-23AS	AS	09/09/24 14:58	SO4TURB50X	10	537	424.4	mg/L	-1126	85	115			M3
L86824-23ASD	ASD	09/09/24 14:58	SO4TURB50X	10	537	481	mg/L	-560	85	115	13	20	M3
WG596890CCV9	CCV	09/09/24 15:01	WI240903-5	25		26.7	mg/L	107	85	115			
WG596890CCB9	CCB	09/09/24 15:01				U	mg/L		-2.5	2.5			
WG596890CCV10	CCV	09/09/24 15:05	WI240903-5	25		26.3	mg/L	105	85	115			
WG596890CCB10	CCB	09/09/24 15:05				U	mg/L		-2.5	2.5			
WG596890CCV11	CCV	09/09/24 15:07	WI240903-5	25		27	mg/L	108	85	115			
WG596890CCB11	CCB	09/09/24 15:07				U	mg/L		-2.5	2.5			

GCC

ACZ Project ID: ***L89982***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Vanadium, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		1.995	mg/L	100	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.015	0.015			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.025025		.029	mg/L	116	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	.1001		.103	mg/L	103	80	120			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	.5005		.5051	mg/L	101	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	.5005	U	.5046	mg/L	101	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	.5005	U	.508	mg/L	101	85	115	1	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.999	mg/L	100	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.03	0.03			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		1.005	mg/L	101	90	110			
WG597409CCB2	CCB	09/17/24 17:36				U	mg/L		-0.03	0.03			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		1.007	mg/L	101	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.03	0.03			

Zinc, dissolved EPA 200.7

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG597409													
WG597409ICV	ICV	09/17/24 16:04	II240912-1	2		1.926	mg/L	96	95	105			
WG597409ICB	ICB	09/17/24 16:10				U	mg/L		-0.06	0.06			
WG597409PQV	PQV	09/17/24 16:13	II240826-4	.0502		.052	mg/L	104	70	130			
WG597409SIC	SIC	09/17/24 16:17	II240903-3	.1004		.102	mg/L	102	80	120			
WG597409LFB	LFB	09/17/24 16:23	II240910-5	.50045		.503	mg/L	101	85	115			
L89982-04AS	AS	09/17/24 16:39	II240910-5	.50045	U	.513	mg/L	103	85	115			
L89982-04ASD	ASD	09/17/24 16:42	II240910-5	.50045	U	.517	mg/L	103	85	115	1	20	
WG597409CCV1	CCV	09/17/24 16:55	II240911-1	1		.974	mg/L	97	90	110			
WG597409CCB1	CCB	09/17/24 16:58				U	mg/L		-0.06	0.06			
WG597409CCV2	CCV	09/17/24 17:33	II240911-1	1		1.022	mg/L	102	90	110			
WG597409CCB2	CCB	09/17/24 17:36				.027	mg/L		-0.06	0.06			
WG597409CCV3	CCV	09/17/24 17:55	II240911-1	1		.989	mg/L	99	90	110			
WG597409CCB3	CCB	09/17/24 17:58				U	mg/L		-0.06	0.06			

GCC Rio Grande ACZ Project ID: ***L89982***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L89982-01	WG596701	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG597333	Selenium, dissolved	EPA 200.8	EA	Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.
	WG597511	Sodium, dissolved	EPA 200.7	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596890	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89982-02	WG597333	Cadmium, dissolved	EPA 200.8	DB	Sample required dilution due to low bias result.
		Lead, dissolved	EPA 200.8	DB	Sample required dilution due to low bias result.
	WG596701	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG597333	Selenium, dissolved	EPA 200.8	EA	Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.
	WG597511	Sodium, dissolved	EPA 200.7	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596890	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89982-03	WG596701	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG597333	Selenium, dissolved	EPA 200.8	DB	Sample required dilution due to low bias result.
	WG597511	Sodium, dissolved	EPA 200.7	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596890	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89982-04	WG596701	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG597511	Sodium, dissolved	EPA 200.7	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596890	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

GCC Rio Grande ACZ Project ID: ***L89982***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L89982-05	WG596701	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG597511	Sodium, dissolved	EPA 200.7	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596890	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89982-06	WG596701	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG597912	Selenium, dissolved	EPA 200.8	DB	Sample required dilution due to low bias result.
	WG597511	Sodium, dissolved	EPA 200.7	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596890	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L89982-07	WG596701	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG596952	Residue, Filterable (TDS) @180C	SM 2540 C-2011	Z3	Sample volume yielded a residue less than 2.5 mg
	WG597194	Selenium, dissolved	EPA 200.8	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG597511	Sodium, dissolved	EPA 200.7	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG596890	Sulfate	ASTM D516-07/-11/-16	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Certification Qualifiers

GCC Rio Grande ACZ Project ID: ***L89982***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

GCC Rio Grande

ACZ Project ID: L89982
Date Received: 09/05/2024 11:22
Received By:
Date Printed: 9/6/2024

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
7737	0.7	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

GCC Rio Grande

ACZ Project ID:	L89982
Date Received:	09/05/2024 11:22
Received By:	
Date Printed:	9/6/2024

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ LABORATORIES | Accredited Environmental Testing | 2773 Downhill Drive, Steamboat Springs, CO 80487, (970) 879-6590 | L89982

CHAIN of CUSTODY

Report to:

Name: Amy Rodrigues	Address: 3372 Lime Road
Company: GCC Rio Grande Inc	Pueblo CO 81004
E-mail: aveek@gcc.com	Telephone: 719-647-6861

Copy of Report to:

Name: Landon Beck	E-mail: lbeck@slrconsulting.com
Company: SLR Consulting	Telephone: (970) 459-4865

Invoice to:

Name: Amy Rodrigues	Address: 3372 Lime Road
Company: GCC Rio Grande Inc	Pueblo CO 81004
E-mail: aveek@gcc.com	Telephone: 719-647-6861

Copy of Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ✓ NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes No ✓

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Amy Rodrigues Sampler's Site Information State CO Zip code 81004 Time Zone MST

*Sampler's Signature: Amy Rodrigues

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: GW-COMPLIANCE

PO#: 258478

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	GW-COmpliance							
MW-13	9/4/2024 10:30	GW	3	✓							
MW-14	9/4/2024 11:32	GW	3	✓							
MW-21	9/4/2024 12:17	GW	3	✓							
MW-22	9/4/2024 12:52	GW	3	✓							
MW-23	9/4/2024 13:34	GW	3	✓							
MW-3B	9/4/2024 12:00	GW	3	✓							
Method Blank	9/4/2024 14:00	GW	3	✓							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Amy Rodrigues	9/4/2024 15:00		9/5/24 11:33

Qualtrax ID: 1984 Revision #: 2 White - Return with sample. Yellow - Retain for your records.

L89982 Chain of Custod